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PANASONIC CT-2707DF SERVICE MANUAL

Quick Links

Service Manual
Service Notes
Receivers Feature Table
Location of Controls (Remote)
Schematics
Foldout Notes

Table of Contents

service manual
Important Safety Notice
Safety Precautions
Horizontal Oscillator Disable Circuit
About lead free solder (PbF)
Table of Contents
Component Removal
How to Replace Flat-IC
Service Notes
Receivers Feature Table
receiver feature table
Board Description Table
Location of controls (remote)
Parts List
replacement parts list
Description of Abbreviations Guide
parts list abbreviations guide
important notice
schematic notes
TNP2AH017AJ, TNP2AH017AK TNP2AH017AL
TNP2AH017BH, TNP2AH017BK TNP2AH017BL
TNP2AH017BJ
TNP2AH017CG, TNP2AH017CH
Foldout Notes
Schematics
Other ManualsLib Projects

ORDER NO. MTNC020204A1
B5

Service Manual

Simplified

Color Television

Simplified Manual (NA8)

Panasonic

Models	Chassis
CT-2707DF	**TP338**
CT-2707DUF	**TP338**
CT-27D12DF	**SP338**
CT-27D12DUF	**SP338**
CT-27D32F	**RP338**
CT-27D32UF	**RP338**
CT-3207DF	**QP341**
CT-3207DUF	**QP341**
CT-32D12DF	**TP341**
CT-32D12DUF	**TP341**
CT-32D32F	**GP341**
CT-32D32UF	**GP341**
CT-36D12DF	**KP342**
CT-36D12DUF	**KP342**
CT-36D32F	**HP342**
CT-36D32UF	**HP342**
SP-3235F	**RP341**
SP-3235UF	**RP341**

This simplified service manual is issued to **add** listed models to the main service manual order No. **MTNC000417C1 (CT-27D10B).** A set of unique schematics and a complete parts list are included in this simplified manual**.** Alignment procedures, additional squematics, dissasembly procedures are available for 27" models in simplified order No. **MTNC010201A1 (CT-27D11E)** and for 32" and 36" models in simplified order No. **MTNC010305A1 (CT-32D11E)** Please file and use this simplified service manual together with simplified service manual order No. **MTNC010201A1, simplified order No. MTNC010305A1** and main service manual, order No. **MTNC000417C1.**

"**WARNING!** This service manual is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. **Products powered by electricity should be serviced or repaired only by experienced professional technicians.** Any attempt to service or repair the product or products dealt with in this service manual by anyone else could result in serious injury or death."

The service technician is required to read and follow the "**Safety Precautions**" and "**Important Safety Notice**" in this Manual.

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Important Safety Notice

Special components are used in this television set which are important for safety. These parts are identified on the schematic diagram by the symbol ⚠ and printed in **BOLD TYPE** on the replacement part list. It is essential that these critical parts are replaced with the manufacturer's specified replacement part to prevent X-ray radiation, shock, fire or other hazards. Do not modify the original design without the manufacturer's permission.

Safety Precautions

General Guidelines

An **Isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks. It will also protect the Receiver from being damaged by accidental shorting that may occur during servicing.

When servicing, observe the original lead dress, especially in the high voltage circuit. Replace all damaged parts (also parts that show signs of overheating.)

Always Replace Protective Devices, such as fishpaper, isolation resistors and capacitors, and shields after servicing the Receiver. Use only manufacturer's recommended rating for fuses, circuits breakers, etc.

High potentials are present when this Receiver is operating. Operation of the Receiver without the rear cover introduces danger for electrical shock. Servicing should not be performed by anyone who is not thoroughly familiar with the necessary precautions when servicing high-voltage equipment.

Extreme care should be practiced when **Handling the Picture Tube**. Rough handling may cause it to implode due to atmospheric pressure. (14.7 lbs per sq. in.). Do not nick or scratch the glass or subject it to any undue pressure. When handling, use safety goggles and heavy gloves for protection. **Discharge the picture tube** by shorting the anode to chassis ground (not to the cabinet or to other mounting hardware). When discharging connect cold ground (i.e. dag ground lead) to the anode with a well insulated wire or use a grounding probe.

Avoid prolonged exposure at close range to unshielded areas of the picture tube to prevent exposure to X-ray radiation.

The **Test Picture Tube** used for servicing the chassis at the bench should incorporate safety glass and magnetic shielding. The safety glass provide shielding for the tube viewing area against X-ray radiation as well as implosion. The magnetic shield limits the X-ray radiation around the bell of the picture tube in addition to the restricting magnetic effects. When using a picture tube test jig for service, ensure that the jig is capable of handling **40kV** without causing X-ray radiation.

Before returning a serviced receiver to the owner, the service technician must thoroughly test the unit to ensure that is completely safe to operate. **Do not use a line isolation transformer when testing.**

Leakage Current Cold Check

Unplug the AC cord and connect a jumper between the two plug prongs.

Measure the resistance between the jumpered AC plug and expose metallic parts such as screwheads, antenna terminals, control shafts, etc. If the exposed metallic part has a return path to the chassis, the reading should be between 240kΩ and 5.2MΩ. If the exposed metallic part does not have a return path to the chassis, the reading should be infinite.

Leakage Current Hot Check (Fig. 1)

Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during the check.

Connect a 1.5kΩ 10 watt resistor in parallel with a 0.15μF capacitor between an exposed metallic part and ground. Use earth ground, for example a water pipe.

Using a DVM with a 1000 ohms/volt sensitivity or higher, measure the AC potential across the resistor.

Repeat the procedure and measure the voltage present with all other exposed metallic parts.

Verify that any potential does not exceed 0.75 volt RMS. A leakage current tester (such a Simpson Model 229, Sencore Model PR57 or equivalent) may be used in the above procedure, in which case any current measure must not exceed 0.5 milliamp. If any measurement is out of the specified limits, there is a possibility of a shock hazard and the Receiver must be repaired and rechecked before it is returned to the customer.

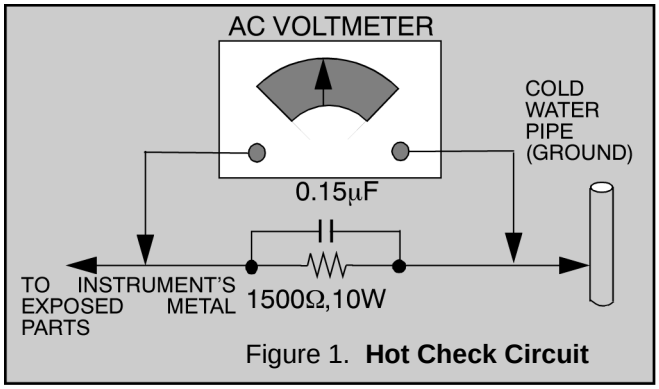


Figure 1. **Hot Check Circuit**

X-ray Radiation

WARNING: The potential source of X-ray radiation in the TV set is in the High Voltage section and the picture tube.

Note: *It is important to use an accurate, calibrated high voltage meter.*

Set the **brightness, pict ure, sharpness** and **color** controls to Minimum. Measure the High Voltage. For 27" models the high voltage should read **28.30kV ± 1.25kV,** 32" models the high voltage should read **29.25kV ± 1.25kV** and for 36" models the high voltage should read **31.50kV ± 1.25kV**. If the upper limit is out of tolerance, immediate service and correction is required to insure safe operation and to prevent the possibility of premature component failure.

Horizontal Oscillator Disable Circuit Test

This test must be performed as a final check before the Receiver is returned to the customer. See Horizontal **Oscillator Disable Circuit Procedure Check** in this manual.

About lead free solder (PbF)

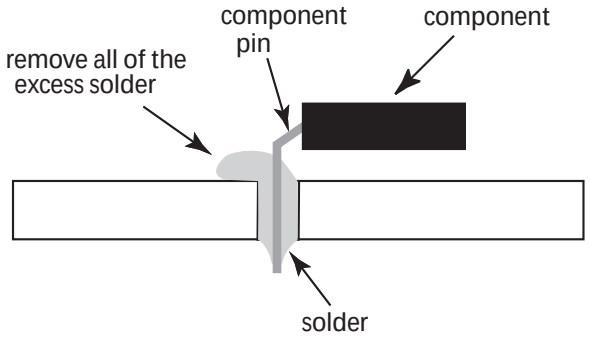
Note: Lead is listed as (Pb) in the periodic table of elements.
In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.
The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).
That is Tin (Sn), Silver (Ag) and (Cu) although other types are available.

This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol PbF stamped on the back of PCB.

Caution

- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30 ~ 40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).
  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



slice view

Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

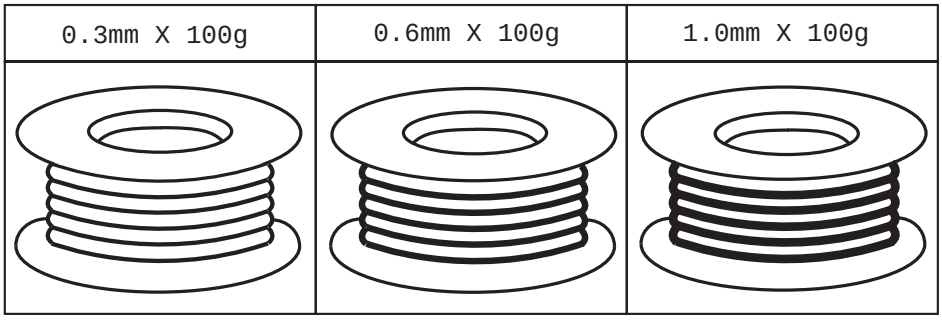


Table of Contents

Important Safety Notice 2

Safety Precautions 2
Horizontal Oscillator Disable Circuit 2

About lead free solder (PbF) 3

Service Notes 5

SPECIFICATIONS

Receivers Feature Table 7

Board Description Table 9

Location of controls (remote) 10

Parts List 13

Description of Abbreviations Guide 32

FOLDOUTS

Foldout Notes 33

Schematics

A-Board
TNP2AH017AJ, TNP2AH017AK
TNP2AH017AL 34
TNP2AH017BH, TNP2AH017BK
TNP2AH017BL 39
TNP2AH017BJ 44
TNP2AH017CG, TNP2AH017CH 49

Service Notes

Note: ***These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.***

Leadless Chip Component (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chips capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitor may also be limited for the same reason. It is recommended that identical components be used.

Chip resistor have a three digit numerical resistance code - 1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or 1.6kΩ resistor, 0 = 0Ω (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

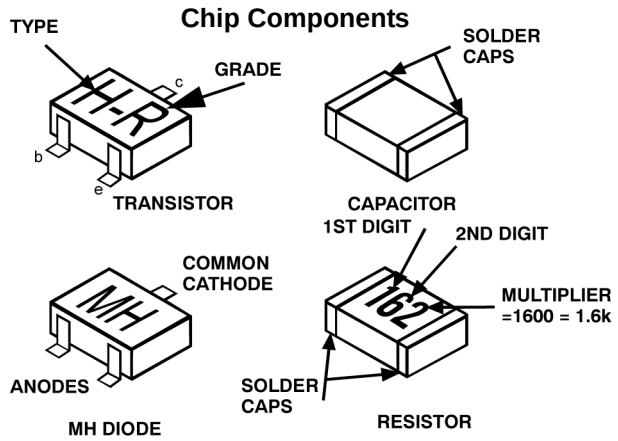
Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either common anode or common cathode. Check the parts list for correct diode number.

Component Removal

1. Use solder wick to remove solder from component end caps or terminal.
2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal.

Chip Component Installation

1. Put a small amount of solder on the board soldering pads.
2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds.

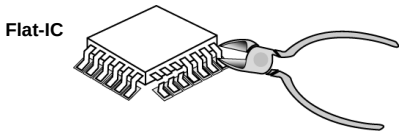


How to Replace Flat-IC

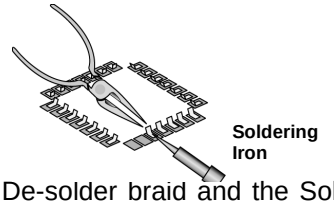
- Required Tools -

- Soldering iron
- De-solder braids
- Sharpen pliers (wire cutters and long nose)
- Magnifier

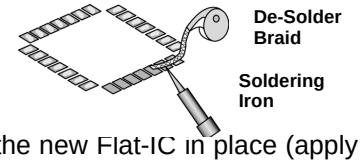
1. Cut the pins of the defective IC with the wire cutters pliers, and remove it completely away from the board. If the IC is glued to the board, apply hot air to complete the removal. **CAUTION**- Do not pull or twist the pliers, may damage the soldering pads in the board.



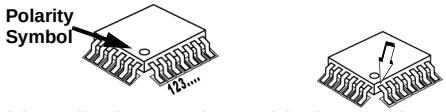
2. Using the Soldering Iron and the long nose pliers, remove the IC pins that still attached to the board.



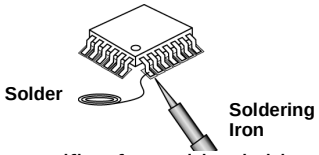
3. Using the De-solder braid and the Soldering Iron, remove the solder from the board soldering pads.



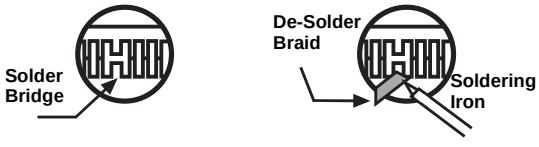
4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity symbol. Start aligning and soldering Pin No.1, then align and solder the pin in the apposite corner of the IC, this will help to align the rest of the pins.



5. Solder all pins to the soldering pads using a fine tipped soldering iron.



6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



IMPORTANT: To protect against possible damage to the solid state devices due to arcing or static discharge, make certain that all ground wires and CRT DAG wire are securely connected.

CAUTION: The power supply circuit is above earth ground and the chassis cannot be polarized. Use an isolation transformer when servicing the Receiver to avoid damage to the test equipment or to the chassis. Connect the test equipment to the proper ground (⏚) or (⏚) when servicing, or incorrect voltages will be measured.

WARNING: This Receiver has been designed to meet or exceed applicable safety and X-ray radiation protection as specified by government agencies and independent testing laboratories.

To maintain original product safety design standards relative to X-ray radiation and shock and fire hazard, parts indicated with the symbol ⚠ on the schematic must be replaced with identical parts. Order parts from the manufacturer's parts center using the parts numbers shown in this service manual, or provide the chassis number and the part reference number.

For optimum performance and reliability, all other parts should be replaced with components of identical specification.

Horizontal Oscillator Disable Circuit

This chassis employs a special circuit to protect against excessive high voltage and beam current. If, for any reason, the high voltage and beam current exceed a predetermined level this protective circuit activates and detunes the horizontal oscillator that limits the high voltage. The over-voltage protection circuit is not adjustable. However, if components indicated by the symbol ⚠ on the schematic in either the horizontal sweep system or the over-voltage protection circuit itself are changed, the operation of the circuit should be checked using the following procedure:

Equipment needed to check the disabled circuit:

1. Voltmeter (0 - 200V scale)

2. High Voltage Meter (0- 50kV)

3. Variac or Isolation Transformer

Procedure:

1. Tune in a station to verify that the horizontal is in sync.

2. Obtain a Monoscope pattern or a signal generator crosshatch pattern

3. Connect the voltmeter (-) lead to TPD2 and the (+) lead to TPD1 (junction of D555 anode, R556 & R557). Set **Bright** level to (0) and **Picture** for a 1.8 volt reading on the voltmeter.

4. Turn the Receiver OFF. Connect a jumper across IC803 pin 3 and pin 4. Apply +9V DC to cathode of D001.

5. Reduce the AC supply voltage to approximately 45V. Connect the high voltage meter to the CRT anode. (H.V. button).

Note: *Use the Dag Ground (C10 on the CRT Board) to connect the (-) lead of the meter.*

6. Turn the receiver ON. Slowly increase the AC supply voltage and verify that for 27" models the high voltages does not exceed **37.1kV,** 32" models the high voltages does not exceed **37.5kV** and for 36" models the high voltages does not exceed **41.2kV** when horizontal just begins to pull out of sync. If the high voltage is not within the specified limit, the cause must be determined and corrected before the Receiver is returned to the customer.

Receiver Feature Table

FEATURE\MODEL	SP-3235F/UF	CT-2707DF/DUF	CT-27D32F/UF	CT-27D12DF/DUF
Chassis	RP341	TP338	QP338	SP338
No. of channels	181	181	181	181
Menu language	Eng/Span/Fr	Eng/Span/Fr	Eng/Span/Fr	Eng/Span/Fr
Closed Caption	X	X	X	X
V-Chip (USA/CANADA)	X	X	X	X
PIP	--	1T	2T	---
75 Ω input	X	X	X	X
Remote Model Number	EUR511514	EUR511511	EUR7613Z30	EUR7613Z10
Picture tube	M80JUA061X	M68LGL061X	M68LGL061X	M68LGL061X
Comb Filter	3 Dig	3 Dig	3 Dig	3 Dig
HEC/VEC (X=BOTH)	HEC	HEC	HEC	HEC
V/A norm (X=BOTH)	X	X	X	X
Color Temp	X	X	X	X
MTS/SAP/DBX	X	X	X	X
BASS/BL/TRE Control	X	X	X	X
AI Sound	X	X	X	X
Surround	X	X	X	X
Built-in audio power	5W x 2 (10%)	5W x 2 (10%)	5W x 2 (10%)	5W x 2 (10%)
No. of speakers	2	2	2	2
A/V in (rear/front)	2(2/0)	3(2/1)	3(2/1)	3(2/1)
S-VHS Input (rear/front)	1/0	1/0	1/0	1/0
Component Input (Y,Pb,Pr)	1	1	1	1
FAO/VAO	BOTH	BOTH	BOTH	BOTH
EPJ/HPJ/MISC	--	HPJ	HPJ	HPJ
Dimensions (WxDxH) mm	770 x 557 x 687	665 x 554.5 x 594.8	770 x 537 x 694	665 x 545 x 595
Dimensions (WxDxH) in	30.3 x 21.9 x 27.4	26.2 x 21.8 x 23.4	30.3 x 21.1 x 27.3	30.3x 21.4 x 23.4
Weight (kg/lbs)	49.5/109	35/77	49.5/109	35/77
Power source (V/Hz)	120/60	120/60	120/60	120/60
Anode voltage	29.25kV ± 1.25kV	28.30kV ± 1.25kV	28.30kV ± 1.25kV	28.30kV ± 1.25kV
Video input jack	1Vp-p 75Ω, phono jack	1Vp-p B 75Ω, phono jack	1Vp-p 75Ω, phono jack	1Vp-p 75Ω, phono jack
Audio input jack	500mV RMS 47kΩ	500mV RMS 47kΩ	500mV RMS 47kΩ	500mV RMS 47kΩ

Table 1: **Receiver Features**

Specifications are subject to change without notice or obligation. Dimensions and weights are approximate.

Receiver Feature Table

FEATURE\MODEL	CT-36D32F/UF	CT-36D12DF/DUF	CT-32D32F/UF	CT-32D12DF/DUF	CT-3207DF/DUF
Chassis	JP342	KP342	NP341	TP341	QP341
No. of channels	181	181	181	181	181
Menu language	Eng/Span/Fr	Eng/Span/Fr	Eng/Span/Fr	Eng/Span/Fr	Eng/Span/Fr
Closed Caption	X	X	X	X	X
V-Chip (USA/CANADA)	X	X	X	X	X
PIP	2T	---	2T	---	1T
75 Ω input	X	X	X	X	X
Remote Model Number	EUR7613Z30	EUR7613Z10	EUR7613Z30	EUR7613Z10	EUR511501
Picture tube	A90LLD361X	A90LLD361X	M80JUA061X	M80JUA061X	M80JUA061X
Comb Filter	3 Dig	3 Dig	3 Dig	3 Dig	3 Dig
HEC/VEC (X=BOTH)	HEC	HEC	HEC	HEC	HEC
V/A norm (X=BOTH)	X	X	X	X	X
Color Temp	X	X	X	X	X
MTS/SAP/DBX	X	X	X	X	X
BASS/BL/TRE Control	X	X	X	X	X
AI Sound	X	X	X	X	X
Surround	X	X	X	X	X
Built-in audio power	5W x 2 (10%)	5W x 2 (10%)	5W x 2 (10%)	5W x 2 (10%)	5W x 2 (10%)
No. of speakers	2	2	2	2	2
A/V in (rear/front)	3(2/1)	3(2/1)	3(2/1)	3(2/1)	3(2/1)
S-VHS Input (rear/front)	1/0	1/0	1/0	1/0	1/0
Component Input (Y,Pb,Pr)	1	1	1	1	1
FAO/VAO	BOTH	BOTH	BOTH	BOTH	BOTH
EPJ/HPJ/MISC	HPJ	HPJ	HPJ	HPJ	HPJ
Dimensions mm (WxDxH) in	878 x 642 x 764 34.5 x 25.3 x 30.1	878 x 642 x 764 34.6 x 25.3 x 30.1	770 x 536 x 694 30.3 x 21.2 x 27.3	770 x 536 x 694 30.3 x 21.2 x 27.3	770 x 557 x 687 30.3 x 21.9x 27.0
Weight (kg/lbs)	67.51/48.8	67.5/48.8	49.5/109	49.5/109	49.5/109
Power source (V/Hz)	120/60	120/60	120/60	120/60	120/60
Anode voltage	31.50kV ± 1.25kV	31.50kV ± 1.25kV	29.25kV ± 1.25kV	29.25kV ± 1.25kV	29.25kV ± 1.25kV
Video input jack	1Vp-p 75Ω, phono jack	1Vp-p B 75Ω, phono jack	1Vp-p 75Ω, phono jack	1Vp-p 75Ω, phono jack	1Vp-p 75Ω, phono jack
Audio input jack	500mV RMS 47kΩ	500mV RMS 47kΩ	500mV RMS 47kΩ	500mV RMS 47kΩ	500mV RMS 47kΩ

Table 1: **Receiver Features**

Specifications are subject to change without notice or obligation. Dimensions and weights are approximate.

Board description table

Board	CT-27D12DF CT-27D12DUF	CT-27D32F CT-27D32UF	CT-2707DF CT-2707DUF	CT-32D32F CT-32D32UF	CT-32D12DF CT-32D12DUF
A-Board Main Chassis TNP2AH017	AK	AL	AJ	BK	BL
C-Board CRT-Board TNP2AA047	AX	AX	AX	AN	AN
Y-Board PIP-Board TNPA1059	--	BD	BD	BD	--
Z-Board Pincushion TNP2AA010	--	--	--	AE	AE

Board	CT-36D32F CT-36D32UF	CT-36D12DF CT-36D12DUF
A-Board Main Chassis TNP2AH017	CG	CH
C-Board CRT-Board TNP2AA048	AA	AA
Y-Board PIP-Board TNP2A1059	BD	--
Z-Board Pincushion TNP2AA010	AE	AE

Board	CT-3207DF CT-3207DUF	SP-3235F SP-3235UF
A-Board Main Chassis TNP2AH017	BH	BJ
C-Board CRT-Board TNP2AA047	AN	AN
Y-Board PIP-Board TNP2A1059	BD	BD
Z-Board Pincushion TNP2AA010	AE	AE

IMPORTANT

When ordering a board, add an “S” after the board suffix application
Example: If order A-Board for CT-27D12DF, should be ordered as: TNP2AH017AKS

Location of controls (remote)

POWER

Press to turn ON and OFF.

MUTE

Press to mute sound.

TV VCR DBS/CBL DVD

Press to select remote operation.

ACTION

Press to access menus.

◀ VOL VOL ▶

Press to adjust TV sound and navigate in menus.

1 2 3
4 5 6
7 8 9
0

Press numeric keypad to select any channel.

R-TUNE

Press to switch to previously viewed channel or video mode.

PROG

Press for delimiter between major and minor channel number.

EUR7613Z10

SAP

Access second audio program.

TV/VIDEO

Press to select TV, Video mode.

CH

CH

Press to select next or previous channel and navigate in menus.

RECALL

Press to display time, channel, sleep timer, and other options.

MENU

Press to access DTV, DBS, or DVD menus.

EXIT

DBS functions button.

GUIDE

DBS and DVD functions button.

REW	PLAY	FF
PAUSE	STOP	REC
TV/VCR	VCR /DBS CH	

Component function buttons

Figure 2. Location of Controls (Remote).

Location of Controls (Remote)

POWER
Press to turn ON and OFF.

MUTE
Press to mute sound.

TV VCR DBS/CBL DVD
Press to select remote operation.

ACTION
Press to access menus.

VOL VOL
Press to adjust TV sound and navigate in menus.

1 2 3
4 5 6
7 8 9
0
Press numeric keypad to select any channel.

R-TUNE
Press to switch to previously viewed channel or video mode.

PROG
Press for delimiter between major and minor channel number.

EUR7613Z30

SAP
Access second audio program.

TV/VIDEO
Press to select TV, Video mode.

CH
CH
Press to select next or previous channel and navigate in menus.

RECALL
Press to display time, channel, sleep timer, and other options.

MENU
Press to access DTV, DBS, or DVD menus.

EXIT
DBS functions button.

GUIDE
DBS and DVD functions button.

REW	PLAY	FF
PAUSE	STOP	REC
TV/VCR	VCR /DBS CH	

Component function buttons

Figure 3. **Location of Controls (Remote).**

Location of Controls (Remote)

POWER
Press to turn ON and OFF.

TV/VIDEO
Press to select TV or Video Mode.

VOL
Press to adjust TV sound and navigate in menus.

MUTE
Press to mute sound. Press to access and cancel (CC) Closed Caption.

"0"~ "9"
Press numeric keypad to select any channel.

R-TUNE
Press to switch to previously viewed channel or video mode.

MOVE, SIZE, PIP, FREEZE, SWAP
PIP function buttons.

LIGHT★
Press to light remote control buttons.

TV, VCR, DBS/CBL, DVD
Press to select remote operation.

EXIT/GUIDE
DBS function buttons.

CH
Press to select next channel and navigate in menus.

ACTION
Press to access menus.

RECALL
Press to display time, channel, sleep timer, and other options.

REW, PLAY, FF, TV/VCR, STOP, PAUSE, REC, VCR/DBS CHANNEL
Component function buttons.

★To prolong the life of the batteries, turn the light off and on by pressing R-TUNE and RECALL buttons, simultaneously.

EUR511501

Figure 4. **Location of Controls (Remote).**

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
		CAPRISTORS
CRA801	**TP00842-51**	**TAPING GAP TERMINAL**
CRA802	**TP00842-51**	**TAPING GAP TERMINAL**
		CAPACITORS
C001	ECA1CM470B	CAP,E 47UF/16V
C002	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C003	ECA1HM4R7B	CAP,E 4.7UF-50V
C005	ECA1CM470B	CAP,E 47UF/16V
C006	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C008	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C009	TCJ2VC1H560J	CAP,C 56PF-J-50V
C010	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C011	ECA0JM331B	CAP,E 330UF-6.3V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
C013	ECA0JM101B	CAP,E 100UF-6.3V
C016	TCJ2VC1H101J	CAP,C 100PF-J-50V
C017	TCJ2VC1H270J	CAP,C 27PF-J-50V
C018	TCJ2VC1H270J	CAP,C 27PF-J-50V
C020	ECA0JM102B	CAP,E 1000UF-6.3V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
C020	ECA0JM222B	CAP,E 2200UF-6.3V CT-36D12DF/DUF CT-36D32F/UF
C020	ECA0JM331B	CAP,E 330UF-6.3V CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
C021	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C022	ECA1EM471B	CAP,E 470UF-25V
C024	ECA1HM4R7B	CAP,E 4.7UF-50V
C025	ECA1HM010B	CAP,E 1UF-50V
C026	ECA1HM010B	CAP,E 1UF-50V
C032	ECA1CM331B	CAP,E 330UF-16V
C033	TCJ2VC1H680J	CAP,C 68PF-J-50V
C034	TCJ2VC1H680J	CAP,C 68PF-J-50V
C043	ECA1HM2R2B	CAP,E 2.2UF-50V
C044	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C047	ECA0JM102B	CAP,E 1000UF-6.3V
C048	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C201	ECJ2VB1C104K	CAP,C .1UF-K-16V
C224	ECJ2VB1C104K	CAP,C .1UF-K-16V
C225	ECJ2VB1C104K	CAP,C .1UF-K-16V
C226	ECJ2VB1C104K	CAP,C .1UF-K-16V
C301	ECJ2VB1C104K	CAP,C .1UF-K-16V
C302	ECJ2VB1C104K	CAP,C .1UF-K-16V
C303	ECJ2VB1C104K	CAP,C .1UF-K-16V
C307	ECA1HM0R1B	CAP,E 0.1UF/50V CT-36D12DF/DUF CT-36D32F/UF
C309	TCJ2VC1H390J	CAP,C 39PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF

REF NO.	PART NO.	DESCRIPTION
C310	TCJ2VC1H390J	CAP,C 39PF-J-50V
C314	EEANA1E1R0B	CAP,E 1.0UF-25V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C315	EEANA1E1R0B	CAP,E 1.0UF-25V
C320	ECJ2VF1H104Z	CAP,C .1UF-Z-50V
C321	TCJ2VB1H103K	CAP,C .01UF-K-50V
C322	TCJ2VB1H103K	CAP,C .01UF-K-50V
C323	TCJ2VB1H103K	CAP,C .01UF-K-50V
C324	ECJ2VF1H104Z	CAP,C .1UF-Z-50V
C330	ECA1AM101B	CAP,E 100UF-10V
C331	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C337	ECA1HM2R2B	CAP,E 2.2UF-50V
C342	ECA1HM010B	CAP,E 1UF-50V
C351	ECKW3D102KBN	CAP,C .001UF-K-2KVDC CT-36D12DF/DUF CT-36D32F/UF
C351	TACCW331T50V	CAP,C 330PF/50V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
C352	EEANA1E1R0B	CAP,E 1.0UF-25V CT-36D12DF/DUF CT-36D32F/UF
C352	TACCW331T50V	CAP,C 330PF/50V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
C353	TACCW331T50V	CAP,C 330PF/50V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
C353	TACCW821T50V	CAP,C 820PF/50V CT-36D12DF/DUF CT-36D32F/UF
C354	ECKW3D102KBN	CAP,C .001UF-K-2KVDC CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
C354	TACCW821T50V	CAP,C 820PF/50V CT-36D12DF/DUF CT-36D32F/UF
C355	TACCW821T50V	CAP,C 820PF/50V CT-36D12DF/DUF CT-36D32F/UF
C356	ECA1CM100B	CAP,E 10UF-16V CT-36D12DF/DUF CT-36D32F/UF
C357	ECKR2H821KB5	CAP,C 820PF-K-500V CT-36D12DF/DUF CT-36D32F/UF
C357	EEANA1E1R0B	CAP,E 1.0UF-25V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
C358	TACCW101T50V	CAP,C 100PF/50V CT-36D12DF/DUF CT-36D32F/UF
C359	TACCW101T50V	CAP,C 100PF/50V CT-36D12DF/DUF CT-36D32F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
C360	TACCW101T50V	CAP,C 100PF/50V CT-36D12DF/DUF CT-36D32F/UF
C364	ECA1CM100B	CAP,E 10UF-16V CT-36D12DF/DUF CT-36D32F/UF
C366	ECKR2H332KB5	CAP,C 3300PF-K-550V CT-36D12DF/DUF CT-36D32F/UF
C370	ECKR2H821KB5	CAP,C 820PF-K-500V CT-36D12DF/DUF CT-36D32F/UF
C371	ECA1CM100B	CAP,E 10UF-16V CT-36D12DF/DUF CT-36D32F/UF
C401	ECJ2VB1C104K	CAP,C .1UF-K-16V
C403	ECA1HM010B	CAP,E 1UF-50V
C404	ECA1HM010B	CAP,E 1UF-50V
C405	ECSF1EE105VB	CAP,E 1.0UF-25V
C407	ECA1CM100B	CAP,E 10UF-16V
C409	TCJ2VC1H101J	CAP,C 100PF-J-50V
C415	ECJ2VF1H104Z	CAP,C .1UF-Z-50V
C451	ECA1HM2R2B	CAP,E 2.2UF-50V
C452	ECQB1H473JF3	CAP,P .047UF-J-50V
C453	ECA1VM471B	CAP,E 470UF-35V
C454	ECA1VHG221E	CAP,E 220UF-35V
C455	ECA1EM222E	CAP,E 2200UF-25V
C456	ECCR1H020CC5	CAP,C 2PF-C-50V
C457	ECJ2VB1C104K	CAP,C .1UF-K-16V
C458	ECA1CM101B	CAP,E 100UF/16V
C459	ECQM1104JZW	CAP,P .10UF-J-100V
C502	ECA1CM221B	CAP,E 10UF-16V
C503	TCJ2VC1H221J	CAP,C 220PF-J-50V
C504	ECQB1H222JF3	CAP,P 2200PF-J-50V
C505	TCJ2VC1H180J	CAP,C 18PF-J-50V
C506	ECA1CM471B	CAP,E 470UF-16V
C507	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C508	TCJ2VC1H102J	CAP,C 1000PF-J-50V
C510	ECCR2H100D5	CAP,C 10PF-D-500V
C511	ECKR2H821KB5	CAP,C 820PF-K-500V
C512	ECKR2H101KB5	CAP,C 100UF-K-500V
C514	ECA1HMR22B	CAP,E .22UF-50V
C515	TCJ2YC1H222J	CAP,C .022UF-J-50V
C516	TCJ2VC1H391J	CAP,C 390PF-J-50V
C517	TCJ2VC1H221J	CAP,C 220PF-J-50V
C518	TCJ2VC1H151J	CAP,C 150PF-J-50V
C519	ECJ2VF1H104Z	CAP,C .1UF-Z-50V
C531	**ECA1EM220B**	**CAP,E 22UF-25V**
C551	**ECA1VM331B**	**CAP,E 330UF-35V**
C552	**ECA1CM331B**	**CAP,E 330UF-16V**
C553	**ECA1CM331B**	**CAP,E 330UF-16V**
C554	ECKR2H561KB5	CAP,C 560PF-K-500V
C555	**ECA2EM220E**	**CAP,E 22UF-250V**
C556	**ECA1CM102B**	**CAP,E 1000UF/16V**
C557	ECKR2H102KB5	CAP,C 1000PF-K-500V
C558	**ECA1CM221B**	**CAP,E 10UF-16V**
C560	**ECEA1HN2R2UB**	**CAP,E 2.2UF-50V**

REF NO.	PART NO.	DESCRIPTION
C561	**ECKR2H561KB5**	**CAP,C 560PF-K-500V**
C562	ECKR2H561KB5	CAP,C 560PF-K-500V
C563	**ECWH12H133JS**	**CAP,P .013UF-J-1.2KV CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
C563	**ECWH12H153JS**	**CAP,P .015UF-J-1.2KV CT-36D12DF/DUF CT-36D32F/UF**
C563	**ECWH12H822JS**	**CAP,P .0082UF-J-1.2KV CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
C564	**ECWH12H122JS**	**CAP,P .0012UF-J-1.2KV CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
C564	**ECWH12H152JS**	**CAP,P .0015UF-J-1.2KV CT-36D12DF/DUF CT-36D32F/UF**
C564	**ECWH12H272JS**	**CAP,P .0027UF-J-1.2KV CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
C565	**ECKW3D122JBR**	**CAP,C 1200PF-J-2KV CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
C565	**ECKW3D561JBR**	**CAP,C 560PF-J-2KV CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
C565	**ECKW3D821JBR**	**CAP,C 820PF-J-2KV CT-36D12DF/DUF CT-36D32F/UF**
C566	**ECKW3D181JBP**	**CAP,C 180PF-J-2KV**
C567	**ECQM4562JZW**	**CAP,P 5600PF-J-400V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
C568	**ECQM2274JZW**	**CAP,P .27UF-J-200V CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
C568	**ECQM4473JZW**	**CAP,P .047UF-J-400V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
C569	**TACFV2E474J**	**CAP,M .47UF-J-200V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
C569	**TACFV2E624J**	**CAP,M .62UF-J-200V CT-36D12DF/DUF CT-36D32F/UF**
C571	ECA1CM471B	CAP,E 470UF-16V
C572	ECA1CM100B	CAP,E 10UF-16V
C573	ECA1CM101B	CAP,E 100UF/16V
C574	ECKR2H471KB5	CAP,C 470PF-K-500W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
C601	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C603	ECQB1H223JF3	CAP,P .022UF-J-50V
C616	ECJ2VB1C104K	CAP,C .1UF-K-16V
C641	ECA1HM100B	CAP,E 10UF/50V

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
C754	ECQB1H104JFW	CAP,P .1UF-J-50V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
C755	ECQB1H104JFW	CAP,P .1UF-J-50V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
C756	ECA1CM221B	CAP,E 10UF-16V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
C757	ECA1VM221B	CAP,E 220UF-35V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
C759	**ECQE1395KNB**	**CAP,P 3.95UF-K-100V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
C760	TACCV101T50V	CAP,C 100PF/50V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
C801	**ECKWAE472ZED**	**CAP,C 4700PF-Z-500V**
C802	**ECKWAE472ZED**	**CAP,C 4700PF-Z-500V**
C803	**ECKWAE472ZED**	**CAP,C 4700PF-Z-500V**
C804	**ECKWAE472ZED**	**CAP,C 4700PF-Z-500V**
C805	EC0S2DA221BB	CAP,E 220UF/200V CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
C805	**EC0S2DA331BB**	**CAP,E 330UF/200V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
C805	**EC0S2DA471BB**	**CAP,E 470UF/160V CT-36D12DF/DUF CT-36D32F/UF**
C806	**EC0S2DA221BB**	**CAP,E 220UF/200V CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
C806	**EC0S2DA331BB**	**CAP,E 330UF/200V CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
C806	**EC0S2DA471BB**	**CAP,E 470UF/160V CT-36D12DF/DUF CT-36D32F/UF**
C807	ECA1HM2R2B	CAP,E 2.2UF-50V
C808	ECA1CM101B	CAP,E 100UF/16V
C809	**EC0S2DG151DG**	**CAP,E 151UF/200V**
C810	**ECQU2A153MVA**	**CAP,P .015UF-M-250VAC**
C811	**ECQU2A153MVA**	**CAP,P .015UF-M-250VAC**
C812	**ECQU2A224MVA**	**CAP,P .22UF-M-250VAC**
C814	**ECQB1H823JF3**	**CAP,P .082UF-J-50V**
C815	ECA1EHG101B	CAP,E 100UF-25V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
C815	ECA1VHG221B	CAP,E 220UF-35V CT-36D12DF/DUF CT-36D32F/UF

REF NO.	PART NO.	DESCRIPTION
C818	ECKW3A821KBP	CAP,C 820PF-K-1KVDC
C820	**ECA1JHG100B**	**CAP,E 10UF-63V**
C821	ECKR2H152KB5	CAP,C .0015UF-K-500V
C822	**ECA1EM221B**	**CAP,E 220UF-25V**
C823	**ECA160V33UE**	**CAP,E 33UF/160V**
C824	ECKW3A331KBP	CAP,C 330PF-K-1KV
C825	ECKW3A471KBP	CAP,C 470PF-K-1KV
C904	TACCX103T50V	CAP,C .01UF/50V CT-36D12DF/DUF CT-36D32F/UF
C952	ECA1CM100B	CAP,E 10UF-16V CT-36D12DF/DUF CT-36D32F/UF
C953	TACCX103T50V	CAP,C .01UF/50V CT-36D12DF/DUF CT-36D32F/UF
C954	TACCX103T50V	CAP,C .01UF/50V CT-36D12DF/DUF CT-36D32F/UF
C958	ECA2EM100B	CAP,E 10UF/250V CT-36D12DF/DUF CT-36D32F/UF
C959	ECKW2H472MD8	CAP,C 4700PF-M-500V CT-36D12DF/DUF CT-36D32F/UF
C961	ECA2CM100B	CAP,E 10UF-160V CT-36D12DF/DUF CT-36D32F/UF
C962	ECKW2H472MD8	CAP,C 4700PF-M-500V CT-36D12DF/DUF CT-36D32F/UF
C964	ECA0JM101B	CAP,E 100UF-6.3V CT-36D12DF/DUF CT-36D32F/UF
C966	ECA0JM101B	CAP,E 100UF-6.3V CT-36D12DF/DUF CT-36D32F/UF
C967	ECA1CM221B	CAP,E 10UF-16V CT-36D12DF/DUF CT-36D32F/UF
C968	TACCX103T50V	CAP,C .01UF/50V CT-36D12DF/DUF CT-36D32F/UF
C969	TACCX103T50V	CAP,C .01UF/50V CT-36D12DF/DUF CT-36D32F/UF
C970	ECCR2H151K5	CAP,C 150-10-500V CT-36D12DF/DUF CT-36D32F/UF
C971	TACCW151T50V	CAP,C 150PF/50V CT-36D12DF/DUF CT-36D32F/UF
C1801	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT- 36D32F/UF SP-3235F/UF
C1802	ECQV1H154JL3	CAP,P.15UF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1803	ECA1HMR22B	CAP,E .22UF-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1804	ECEA1HKAR22B	CAP,E .22UF-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1805	TCJ2VF1H333Z	CAP,C .033UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
C1806	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1807	ECA1CM470B	CAP,E 47UF/16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1808	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1809	ECA1CM470B	CAP,E 47UF/16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1810	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1811	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1812	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1813	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1814	ECA1CM470B	CAP,E 47UF/16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1815	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1816	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1817	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1818	ECA1CM100B	CAP,E 10UF-16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1819	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1820	ECA1CM470B	CAP,E 47UF/16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF

REF NO.	PART NO.	DESCRIPTION
C1821	TCJ2VC1H150J	CAP,C 15PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1822	TCJ2VC1H120J	CAP,C 12PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1823	TCJ2VC1H680J	CAP,C 68PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1826	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1827	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1828	TCJ2VF1H103Z	CAP,C .01UF-Z-50 CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1829	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1830	TCJ2VC1H560J	CAP,C 56PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1831	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1832	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1833	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1835	ECA1CM100B	CAP,E 10UF-16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1836	TCJ2VC1H680J	CAP,C 68PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1837	TCJ2VF1H104Z	CAP,C .1UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C1839	TCJ2VC1H680J	CAP,C 68PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
C1840	TCJ2VC1H680J	CAP,C 68PF-J-50 CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C2105	ECA0JM101B	CAP,E 100UF-6.3V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2106	ECA1HMR47B	CAP,E .47UF-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2108	ECA1CM330B	CAP,E 33UF-16V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2109	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2111	ECEA1HFSR22B	CAP,E .22UF-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2114	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2115	ECA1HM100B	CAP,E 10UF/50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2116	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2118	TCJ2VC1H270J	CAP,C 27PF-J-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2119	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2120	ECEA1HFSR47B	CAP,E .47UF-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2121	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2123	TCJ2VC1H270J	CAP,C 27PF-J-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2124	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2125	ECA1CM100B	CAP,E 10UF-16V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2126	ECA1HMR22B	CAP,E .22UF-50V CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
C2202	ECA1HM2R2B	CAP,E 2.2UF-50V
C2203	ECA1HM4R7B	CAP,E 4.7UF-50V
C2204	AP106K016CAE	CAP,T 10UF/16V
C2205	ECA1HM010B	CAP,E 1UF-50V
C2206	ECQB1H223JF3	CAP,P .022UF-J-50V
C2207	AP335K016CAE	CAP,T 3.3UF/16V
C2208	ECJ2VB1C104K	CAP,C .1UF-K-16V

REF NO.	PART NO.	DESCRIPTION
C2209	ECJ2VB1C104K	CAP,C .1UF-K-16V
C2210	ECJ2VB1C104K	CAP,C .1UF-K-16V
C2211	ECA1CM100B	CAP,E 10UF-16V
C2212	ECQB1H473JF3	CAP,P .047UF-J-50V
C2215	ECA0JM101B	CAP,E 100UF-6.3V
C2218	ECA1HMR47B	CAP,E .47UF-50V
C2301	ECA1VM102E	CAP,E 1000UF-35V
C2302	ECA1HM010B	CAP,E 1UF-50V
C2305	ECA1HM010B	CAP,E 1UF-50V
C2306	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C2307	ECA1CM102B	CAP,E 1000UF/16V
C2309	ECQB1H473JF3	CAP,P .047UF-J-50V
C2311	ECA1HM3R3B	CAP,E 3.3UF-50V
C2312	ECA1EM102E	CAP,E 1000UF-25V CT-27D32F/UF
C2313	ECA1EM101B	CAP,E 100UF-25V
C2314	ECQB1H473JF3	CAP,P .047UF-J-50V
C2315	ECA1EM100B	CAP,E 10UF-25V
C2321	ECA1EM100B	CAP,E 10UF-25V
C2324	ECA1EM100B	CAP,E 10UF-25V
C2325	ECA1CM102B	CAP,E 1000UF/16V
C2326	TCJ2VB1H223K	CAP,C .022UF-K-50V
C2327	TCJ2VB1H223K	CAP,C .022UF-K-50V
C2328	TCJ2VB1H223K	CAP,C .022UF-K-50V
C2329	TCJ2VB1H223K	CAP,C .022UF-K-50V
C2331	ECA1HM010B	CAP,E 1UF-50V
C2333	ECA1HM010B	CAP,E 1UF-50V
C2339	ECA1HM010B	CAP,E 1UF-50V
C2340	ECA1HM010B	CAP,E 1UF-50V
C2342	ECA1CM470B	CAP,E 47UF/16V
C2350	EEANA1E100B	CAP,E 10UF-25V
C2351	ECJ2VB1C104K	CAP,C .1UF-K-16V
C2352	TCJ2VB1H472K	CAP,C 4700PF-K-50V
C2353	ECA1HM4R7B	CAP,E 4.7UF-50V
C2354	ECA1HM4R7B	CAP,E 4.7UF-50V
C2355	ECA1HM4R7B	CAP,E 4.7UF-50V
C2356	ECA1HMR47B	CAP,E .47UF-50V
C2357	ECA1CM100B	CAP,E 10UF-16V
C2358	EEANA1E100B	CAP,E 10UF-25V
C2359	ECJ2VB1C104K	CAP,C .1UF-K-16V
C2360	TCJ2VB1H472K	CAP,C 4700PF-K-50V
C2361	ECA1AM470B	CAP,E 47UF-10V
C2362	ECQB1H104JF3	CAP,P .10UF-J-50V
C2363	ECJ2VB1C104K	CAP,C .1UF-K-16V
C2364	ECA1HM4R7B	CAP,E 4.7UF-50V
C2365	ECA1AM470B	CAP,E 47UF-10V
C2366	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C3001	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C3002	ECA1AM101B	CAP,E 100UF-10V
C3003	ECA1CM100B	CAP,E 10UF-16V
C3004	ECA1HM010B	CAP,E 1UF-50V

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
C3006	ECA1HM010B	CAP,E 1UF-50V
C3007	ECA1CM100B	CAP,E 10UF-16V
C3008	ECA1CM100B	CAP,E 10UF-16V
C3009	ECA1HM010B	CAP,E 1UF-50V
C3010	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C3011	ECA1HM010B	CAP,E 1UF-50V
C3012	ECA1CM100B	CAP,E 10UF-16V
C3013	ECA1CM100B	CAP,E 10UF-16V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
C3014	ECA1HM010B	CAP,E 1UF-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
C3016	ECA1HM010B	CAP,E 1UF-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
C3018	ECA1CM100B	CAP,E 10UF-16V
C3019	ECA1CM100B	CAP,E 10UF-16V
C3020	ECA1HM010B	CAP,E 1UF-50V
C3021	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C3022	ECA1HM010B	CAP,E 1UF-50V
C3023	ECA1CM100B	CAP,E 10UF-16V
C4301	ECA0JM331B	CAP,E 330UF-6.3V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4304	ECEA1CKA100B	CAP,E 10UF-16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4307	ECEA1CKN100B	CAP,E 10UF-16V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4313	TCJ2VB1H561K	CAP,C 560PF-K-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4314	ECA1HMR47B	CAP,E .47UF-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4315	TCJ2VB1H152K	CAP,C 1500PF-K-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4316	ECA0JM331B	CAP,E 330UF-6.3V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4317	TCJ2VF1H103Z	CAP,C .01UF-Z-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4319	TCJ2VC1H391J	CAP,C 390PF-J-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C4320	TCJ2VB1H681K	CAP,C 680PF-K-50V CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
C6501	ECA0JM101B	CAP,E 100UF-6.3V
C6502	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C6504	TCJ2VC1H270J	CAP,C 27PF-J-50V
C6507	TCJ2VC1H120J	CAP,C 12PF-J-50V
C6510	TCJ2VC1H120J	CAP,C 12PF-J-50V
C6511	ECA1HM010B	CAP,E 1UF-50V
C6512	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C6513	TCJ2VC1H270J	CAP,C 27PF-J-50V
C6516	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C6517	ECEA1HN010UB	CAP,E 1UF/50V
C6518	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C6520	ECA1CM100B	CAP,E 10UF-16V
C6521	ECA1AM470B	CAP,E 47UF-10V
C6522	TCJ2VC1H221J	CAP,C 220PF-J-50V
C6523	ECJ2VF1H104Z	CAP,C .1UF-Z-50V
C6524	ECA1HM010B	CAP,E 1UF-50V
C6525	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C6526	ECA1CM100B	CAP,E 10UF-16V
C6527	ECJ2VF1H104Z	CAP,C .1UF-Z-50V
C6528	ECA1AM470B	CAP,E 47UF-10V
C6529	ECA1CM100B	CAP,E 10UF-16V
C6531	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
C6532	ECJ2VF1H103Z	CAP,C .01UF-Z-50V
JS2306	TCJ2VB1H472K	CAP,C 4700PF-K-50V
		DIODES
D001	ERA15-01V3	DIODE, RECTIFIER
D002	MA165TA5VT	DIODE, SWITCHING
D003	MA4056MTA	DIODE
D006	MA4330HTA	DIODE
D007	ERA15-01V3	DIODE, RECTIFIER
D008	ERA15-01V3	DIODE, RECTIFIER
D009	ERA15-01V3	DIODE, RECTIFIER
D011	MA165TA5VT	DIODE, SWITCHING
D014	MA165TA5VT	DIODE, SWITCHING
D015	MA700ATA	DIODE
D018	MA165TA5VT	DIODE, SWITCHING
D351	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D352	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
D353	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D354	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D355	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D356	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D361	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D362	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D364	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D366	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D451	ERA15-01V3	DIODE, RECTIFIER
D502	**MA4062LTVTA**	**DIODE, ZENER**
D530	MA4082LTA	DIODE
D531	**AS01V0**	**DIODE**
D532	MA4091LTA	DIODE
D533	MA4091MTA	DIODE
D551	**TVSRU2NV1**	**DIODE, SILICONE**
D554	**BYD33G-163**	**DIODE**
D555	MA165TA5VT	DIODE, SWITCHING
D556	MA4360HTA	DIODE, ZENER
D557	**TVSRU2NV1**	**DIODE, SILICONE**
D558	**RS3FS**	**DIODE**
D559	**BYD33G-113**	**DIODE**
D561	**BYD33G-163**	**DIODE**
D751	MA2270B	DIODE CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
D801	**D3SB60**	**INT CKT CT-27D32F/UF**
D801	**GP15KL-042**	**DIODE**
D802	**GP15KL-042**	**DIODE**
D805	**TAP111M003**	**DIODE**
D806	**MA4047MTA**	**DIODE**
D807	**MA165TA5VT**	**DIODE, SWITCHING**
D809	**RU3YX-MV1**	**DIODE, RECTIFIER**
D820	EU02V1	DIODE
D821	EU02V1	DIODE
D822	EU02V1	DIODE
D823	RL30A	DIODE
D824	EU02V1	DIODE
D825	**TVSSR2KLV1**	**DIODE, PROTECTION**
D826	EU02V1	DIODE
D829	MA165TA5VT	DIODE, SWITCHING
D830	**MA4270MTA**	**DIODE**
D955	MA29W-BTA	DIODE CT-36D12DF/DUF CT-36D32F/UF
D957	MA165TA5VT	DIODE, SWITCHING CT-36D12DF/DUF CT-36D32F/UF
D2101	MA3330MTX	DIODE CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
D2301	MA165TA5VT	DIODE, SWITCHING
D2305	MA4110MTA	DIODE, ZENER
D2306	MA4110MTA	DIODE, ZENER
D2307	MA4110MTA	DIODE, ZENER
D2308	MA4110MTA	DIODE, ZENER
D2309	MA4110MTA	DIODE, ZENER
D2310	MA4110MTA	DIODE, ZENER
D2311	MA4110MTA	DIODE, ZENER
D2312	MA4110MTA	DIODE, ZENER
D2315	MA165TA5VT	DIODE, SWITCHING
D2342	MA165TA5VT	DIODE, SWITCHING
D2343	MA165TA5VT	DIODE, SWITCHING
D3001	MA4110MTA	DIODE, ZENER
D3002	MA4110MTA	DIODE, ZENER
D3003	MA4110MTA	DIODE, ZENER
D3004	MA4110MTA	DIODE, ZENER
D3005	MA4110MTA	DIODE, ZENER
D3006	MA4110MTA	DIODE, ZENER
D3007	MA4110MTA	DIODE, ZENER
D3008	MA4110MTA	DIODE, ZENER
D3009	MA4110MTA	DIODE, ZENER
D3010	MA4110MTA	DIODE, ZENER
D3011	MA4110MTA	DIODE, ZENER
D3012	MA4110MTA	DIODE, ZENER
D3017	MA4110MTA	DIODE, ZENER CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
D3018	MA4110MTA	DIODE, ZENER CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
D3019	MA4110MTA	DIODE, ZENER CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
D3020	MA4110MTA	DIODE, ZENER CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
D3021	MA4110MTA	DIODE, ZENER CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
D3022	MA4110MTA	DIODE, ZENER CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
D4301	MA3036HTX	DIODE CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
		FUSES
F801	**XBA2A00101**	**FUSE 6.3A 125V**
		INTEGRATED CIRCUITS
IC001	**MN101C46FTH**	**IC MPU**
IC002	TVR2AJ126	IC, EEPROM CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-2707DF/DUF CT-3207DF/DUF SP-3235F/UF
IC002	TVR2AJ127	IC, EEPROM CT-36D12DF/DUF CT-36D32F/UF
IC003	PIC-37042SR	IC, IR RECEIVER
IC005	PQ1R33	IC, VOLTAGE REGULATOR, 3.3V
IC006	PST9128NR	IC, RESET
IC101	**TA1310BN**	**IC VCJ**
IC451	**LA7845N**	**IC V-OUT**
IC551	AN78M09LB	IC VOLTAGE REGULATOR 9V
IC552	AN7805LB	**IC VOLTAGE REGULATOR, 5V**
IC801	**PC817X2**	**IC OPTO ISOLATOR**
IC801	**STRG5623**	**IC OPTO ISOLATOR CT-27D32F/UF**
IC802	PC123FY2	IC OPTO ISOLATORCT-27D32F/UF
IC803	**STR58041A**	**IC POWER SUPPLY B+**
IC1801	M65617SP	IC PIP CONTROL CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
IC2101	AN5170K	IC VIF,SIF,AFC, DET CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
IC2201	AN5849S-E1V	IC MTS
IC2301	AN5277	IC AUDIO AMP CT-27D32F/UF
IC2302	AN5272	IC AUDIO AMP
IC2351	CXA2021S	IC S-AGC
IC3001	M52790SP	IC A/V SWITCH
IC6501	MN82840	IC 3 LINE COMB FILTER
IC6502	PST9142NR	IC COMB FILTER RESET
		COILS
L001	EXCELSA26T	FERRITE BEAD
L002	TLTABT2R2K	COIL, PEAKING 2.2UH
L003	TLTABT2R2K	COIL, PEAKING 2.2UH
L004	TLTABT2R2K	COIL, PEAKING 2.2UH
L005	ELESN330KA	COIL, PEAKING 33UH
L006	EXCELSA24T	FERRITE BEAD
L007	ELESN180JA	COIL, PEAKING 18UH
L008	TLTABT470K	COIL, PEAKING 47UH

REF NO.	PART NO.	DESCRIPTION
L010	TLTABT2R2K	COIL, PEAKING 2.2UH
L011	TLTABT2R2K	COIL, PEAKING 2.2UH
L012	TLTABT2R2K	COIL, PEAKING 2.2UH
L013	TLTABT2R2K	COIL, PEAKING 2.2UH
L106	EXCELSA26T	FERRITE BEAD
L108	EXCELSA26T	FERRITE BEAD
L109	EXCELSA26T	FERRITE BEAD
L110	EXCELSA39V	FERRITE BEAD
L218	EXCELSA26T	FERRITE BEAD
L319	TLTABT101K	COIL, PEAKING
L351	TLTABT101K	COIL, PEAKING CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
L355	ELESN270KA	COIL, PEAKING 27UH CT-36D12DF/DUF CT-36D32F/UF
L356	ELESN390KA	COIL, PEAKING 39UH CT-36D12DF/DUF CT-36D32F/UF
L357	ELESN270KA	COIL, PEAKING 27UH CT-36D12DF/DUF CT-36D32F/UF
L358	ELESN101JA	COIL, PEAKING 100UH CT-36D12DF/DUF CT-36D32F/UF
L359	ELESN101JA	COIL, PEAKING 100UH CT-36D12DF/DUF CT-36D32F/UF
L360	ELESN101JA	COIL, PEAKING 100UH CT-36D12DF/DUF CT-36D32F/UF
L430	EXCELSA39V	FERRITE BEAD
L501	ELESN3R3KA	COIL, PEAKING 3.3UH
L518	ELESN120JA	COIL, PEAKING 12UH
L541	EXCELDR35V	FERRITE BEAD
L542	EXCELSA39V	FERRITE BEAD CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF
L543	EXCELSA26T	FERRITE BEAD CT-3207DF/DUF CT-32D32F/UF SP-3235F/UF
L551	**ELH5L7101**	**COIL, HORIZ. LINEARITY CT-36D12DF/DUF CT-36D32F/UF**
L551	**ELH5L7103**	**COIL CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
L551	**ELH5L7115**	**COIL, HORIZONTAL LINEARIT CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
L554	EXCELSA24T	FERRITE BEAD
L555	EXCELSA24T	FERRITE BEAD
L556	EXCELSA24T	FERRITE BEAD
L751	**ELC18B301L**	**COIL, CHOKE CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
L752	EXCELDR35V	FERRITE BEAD CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
L801	**ELF20N020A**	**COIL, 2UH**

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
L803	**ELF17N007A**	**LINE FILTER**
L804	EXCELSA39V	FERRITE BEAD
L953	EXCELSA26T	FERRITE BEAD CT-36D12DF/DUF CT-36D32F/UF
L954	EXCELSA26T	FERRITE BEAD CT-36D12DF/DUF CT-36D32F/UF
L958	EXCELSA26T	FERRITE BEAD CT-36D12DF/DUF CT-36D32F/UF
L1801	ELESN1R5KA	COIL, PEAKING 1.5UH CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
L1803	ELESN2R2KA	COIL, PEAKING 2.2UH CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
L1804	ELESN150JA	COIL, PEAKING 15UH CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
L1806	ELESN1R0KA	COIL, PEAKING 1.0UH CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
L1807	ELESN1R0KA	COIL, PEAKING 1.0UH CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
L1808	EXCELDR25V	FERRITE BEAD CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
L2103	ELESN150KA	COIL, PEAKING 15UH CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
L2106	ELESN560KA	COIL, PEAKING 56UH CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
L2109	EIV7EN053B	COIL, VCO CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
L2310	TLTABT2R2K	COIL, PEAKING 2.2UH
L4301	ELESN3R9KA	COIL, PEAKING 3.9UH CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
L6502	ELESN330JA	COIL, PEAKING 33UH
L6505	ELESN330JA	COIL, PEAKING 33UH
L6507	ELESN150KA	COIL, PEAKING 15UH
L6508	EXCELSA26T	FERRITE BEAD
TRANSISTORS		
Q001	2SD601ARTX	TRANSISTOR
Q002	2SC1685QRSTA	TRANSISTOR
Q003	2SD601ARTX	TRANSISTOR
Q004	2SC1685QRSTA	TRANSISTOR
Q005	2SD601ARTX	TRANSISTOR
Q201	2SD601ARTX	TRANSISTOR
Q302	2SD601ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
Q303	2SD601ARTX	TRANSISTOR
Q351	2SC3063RL	TRANSISTOR
Q352	2SC3063RL	TRANSISTOR
Q353	2SC3063RL	TRANSISTOR
Q354	2SC1685QRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q355	2SC1685QRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q356	2SC1685QRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q357	2SC3063RL	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q358	2SC3063RL	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q359	2SC3063RL	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q360	2SB1011RL	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q361	2SB1011RL	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q362	2SB1011RL	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q363	2SA564QRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q401	2SD601ARTX	TRANSISTOR
Q402	2SD601ARTX	TRANSISTOR
Q501	**2SC4212HLB**	**TRANSISTOR**
Q509	2SD601ARTX	TRANSISTOR
Q515	2SD601ARTX	TRANSISTOR
Q551	**2SC5339LBMA1**	**TRANSISTOR**
Q551	**2SD2539LBMA1**	**TRANSISTOR CT-27D32F/UF**
Q603	2SD601ARTX	TRANSISTOR
Q751	2SC1685QRSTA	TRANSISTOR CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
Q752	2SA564AQRSTA	TRANSISTOR CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
Q753	**2SD1266PLB**	**TRANSISTOR CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
Q801	2SC1685RSTA	TRANSISTOR
Q802	2SC1384RS	TRANSISTOR
Q806	2SB1011QRL	TRANSISTOR CT-27D32F/UF
Q807	2SC1473A	TRANSISTOR CT-27D32F/UF
Q901	2SB709ARTX	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q952	2SC1685QRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
Q953	2SC1685QRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q954	2SA564AQRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q955	2SB1569AF51E	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q956	2SD2400AF51E	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q961	2SC1685QRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q962	2SA564AQRSTA	TRANSISTOR CT-36D12DF/DUF CT-36D32F/UF
Q1801	2SD601ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32FUF SP-3235F/UF
Q1802	2SD601ARTX	TRANSISTOR CT-2707DF/DUFCT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q1803	2SD601ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q1804	2SB709ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q1805	2SB709ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q2101	2SD601ARTX	TRANSISTOR CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
Q2302	2SB709ARTX	TRANSISTOR
Q2303	2SD601ARTX	TRANSISTOR
Q2342	2SB709ARTX	TRANSISTOR
Q2343	2SD601ARTX	TRANSISTOR
Q2344	2SD601ARTX	TRANSISTOR
Q2409	2SD601ARTX	TRANSISTOR
Q2410	2SD601ARTX	TRANSISTOR
Q4309	2SB709ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q4310	2SD601ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q4311	2SB709ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q4312	2SD601ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q4313	2SD601ARTX	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q4315	2SC1384QR	TRANSISTOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
Q6501	2SD601ARTX	TRANSISTOR
Q6502	2SD601ARTX	TRANSISTOR
Q6504	2SD601ARTX	TRANSISTOR
Q6505	2SD601ARTX	TRANSISTOR
Q6506	2SD601ARTX	TRANSISTOR
Q6509	2SD601ARTX	TRANSISTOR
Q6510	2SB709ARTX	TRANSISTOR
Q6514	2SB709ARTX	TRANSISTOR
Q6516	2SB709ARTX	TRANSISTOR
Q6517	2SD601ARTX	TRANSISTOR
Q6519	2SD601ARTX	TRANSISTOR
		RELAYS
RL801	**TSEH8007**	**RELAY**
		RESISTORS
R001	ERJ6GEYJ471V	RES,M 470-J-1/10W
R002	ERJ6GEYJ182V	RES,M 1.8K-J-1/10W
R003	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R004	ERDS1TJ122T	RES,C 1.2K-J-1/2W
R005	ERDS2TJ101T	RES,C 100-J-1/4W
R006	ERDS1TJ560T	RES,C 56-J-1/2W
R007	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R008	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R009	ERJ6GEYJ221V	RES,M 220-J-1/10W
R010	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R012	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R013	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R014	ERJ6GEYJ392V	RES,M 3.9K-J-1/10W
R015	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R016	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R017	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R020	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W
R021	ERJ6GEYJ101V	RES,M 100-J-1/10W
R022	ERJ6GEYJ101V	RES,M 100-J-1/10W
R023	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R024	ERJ6GEYJ221V	RES,M 220-J-1/10W
R025	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R026	ERJ6GEYJ103V	RES,M 10K-J-1/10W SP-3235F/UF
R026	ERJ6GEYJ183V	RES,M 18K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R026	ERJ6GEYJ223V	RES,M 22K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF
R027	ERJ6GEYJ103V	RES,M 10K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-32D12DF/DUF CT-36D12DF/DUF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
R027	ERJ6GEYJ223V	RES,M 22K-J-1/10W CT-27D32F/UFCT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R028	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R029	ERJ6GEYJ103V	RES,M 10K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R030	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R032	ERJ6ENF1002V	RES,M 10K-F-1/10W
R033	ERJ6GEYJ272V	RES,M 2.7K-J-1/10W
R034	ERJ6GEYJ222V	RES,M 2.2K-J-1/10W
R035	ERJ6GEYJ362V	RES,M 3.6K-J-1/10W
R036	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R037	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R038	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R039	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R040	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R041	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R042	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R043	ERJ6GEYJ203V	RES,M 20K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R044	ERJ6GEYJ273V	RES,M 27K-J-1/10W
R045	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R046	ERJ6GEYJ333V	RES,M 33K-J-1/10W
R047	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R049	ERJ6GEYJ101V	RES,M 100-J-1/10W
R060	ERJ6GEYJ471V	RES,M 470-J-1/10W
R066	ERJ6GEYJ752V	RES,M 7.5K-J-1/10W
R067	ERJ6GEYJ752V	RES,M 7.5K-J-1/10W
R068	ERJ6GEYJ752V	RES,M 7.5K-J-1/10W
R072	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R073	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R074	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R075	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R076	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R077	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R078	ERJ6GEYJ101V	RES,M 100-J-1/10W
R079	ERJ6GEYJ101V	RES,M 100-J-1/10W
R081	ERG3FJ270H	RES,M 27-J-3W CT-27D32F/UF
R201	ERJ6GEYJ331V	RES,M 330-J-1/10W
R223	ERJ6GEYJ561V	RES,M 560-J-1/10W
R225	ERJ6GEYJ331V	RES,M 330-J-1/10W
R226	ERJ6GEYJ331V	RES,M 330-J-1/10W
R245	ERJ6GEYJ224V	RES,M 220K-J-1/10W
R301	ERJ6GEYJ331V	RES,M 330-J-1/10W
R302	ERJ6GEYJ331V	RES,M 330-J-1/10W
R303	ERJ6GEYJ331V	RES,M 330-J-1/10W
R305	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R306	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R309	ERJ6GEYJ332V	RES,M 3.3K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R310	ERJ6GEYJ332V	RES,M 3.3K-J-1/10W
R312	ERJ6GEYJ393V	RES,M 39K-J-1/10W
R328	ERJ6GEYJ105V	RES,M 1M-J-1/10W
R341	ERJ6GEYJ474V	RES,M 470K-J-1/10W
R351	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R351	ERG2FJ123H	RES,M 12K-J-2W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R352	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R352	ERG2FJ123H	RES,M 12K-J-2W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R353	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R353	ERG2FJ123H	RES,M 12K-J-2W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R354	ERDS1TJ272T	RES,C 2.7K-J-1/2W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R355	ERDS1TJ272T	RES,C 2.7K-J-1/2W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R356	ERDS1TJ272T	RES,C 2.7K-J-1/2W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R357	ERDS2TJ181T	RES,C 180-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R358	ERDS2TJ181T	RES,C 180-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R359	ERDS2TJ181T	RES,C 180-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
R360	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R360	ERDS2TJ821T	RES,C 820-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R361	ERDS2TJ821T	RES,C 820-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R362	ERDS2TJ821T	RES,C 820-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R363	ERDS2TJ101T	RES,C 100-J-1/4W
R364	ERDS2TJ101T	RES,C 100-J-1/4W
R365	ERDS2TJ101T	RES,C 100-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R367	ERDS2TJ221T	RES,C 220-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R368	ERDS2TJ221T	RES,C 220-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R369	ERDS2TJ221T	RES,C 220-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R370	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R371	ERDS2TJ751T	RES,C 750-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R372	ERDS2TJ751T	RES,C 750-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R373	ERDS2TJ751T	RES,C 750-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R374	ERG2FJ223H	RES,M 22K-J-2W CT-36D12DF/DUF CT-36D32F/UF
R375	ERG2FJ223H	RES,M 22K-J-2W CT-36D12DF/DUF CT-36D32F/UF
R376	ERG2FJ223H	RES,M 22K-J-2W CT-36D12DF/DUF CT-36D32F/UF
R377	ERG2FJ223H	RES,M 22K-J-2W CT-36D12DF/DUF CT-36D32F/UF
R378	ERG2FJ223H	RES,M 22K-J-2W CT-36D12DF/DUF CT-36D32F/UF
R379	ERG2FJ223H	RES,M 22K-J-2W CT-36D12DF/DUF CT-36D32F
R380	ERDS2TJ330T	RES,C 33-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R381	ERDS2TJ330T	RES,C 33-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R382	ERDS2TJ330T	RES,C 33-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R383	ERDS2TJ330T	RES,C 33-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R384	ERDS2TJ330T	RES,C 33-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R385	ERDS2TJ330T	RES,C 33-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R386	ERDS2TJ752T	RES,C 7.5K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R387	ERDS2TJ752T	RES,C 7.5K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R388	ERDS2TJ752T	RES,C 7.5K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R389	ERDS1TJ272T	RES,C 2.7K-J-1/2W CT-36D12DF/DUF CT-36D32F/UF
R390	ERDS1TJ272T	RES,C 2.7K-J-1/2W CT-36D12DF/DUF CT-36D32F/UF
R391	ERDS1TJ272T	RES,C 2.7K-J-1/2W CT-36D12DF/DUF CT-36D32F/UF
R401	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R402	ERJ6GEYJ471V	RES,M 470-J-1/10W
R403	ERJ6GEYJ622V	RES,M 6.2K-J-1/10W
R405	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R408	ERJ6GEYJ331V	RES,M 330-J-1/10W
R409	ERJ6GEYJ271V	RES,M 270-J-1/10W
R410	ERJ6ENF1272V	RES,M 12.7K-F-1/10W
R411	ERJ6ENF6801V	RES,M 6.8K-F-1/10W
R412	ERDS2TJ123T	RES,C 12K-J-1/4W
R452	ERDS1FJ1R8P	RES,C 1.8-J-1/2W
R453	ERJ6GEYJ123V	RES,M 12K-J-1/10W
R454	ERJ6GEYJ473V	RES,M 47K-J-1/10W
R455	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R456	ERG3FJ151H	RES,M 150-J-3W
R457	ERDS1FJ1R5P	RES,C 1.5-J-1/2W
R458	ERDS1FJ2R7P	RES,C 2.7-J-1/2W
R459	ERDS2TJ122T	RES,C 1.2K-J-1/4W
R460	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R461	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R465	ERJ6GEYJ104V	RES,M 100K-J-1/10W
R468	ER0S2THF4321	RES,M 4.32K-F-1/4W
R469	ER0S2THF1471	RES,M 1.47K-F-1/4W
R470	ERDS2TJ102T	RES,C 1K-J-1/4W
R501	ERJ6GEYJ301V	RES,M 300-J-1/10W
R502	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R504	ERJ6GEYJ333V	RES,M 33K-J-1/10W
R505	ERDS1TJ181T	RES,C 180-J-1/2W
R506	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W
R507	ERJ6GEYJ561V	RES,M 560-J-1/10W
R508	ERJ6GEYJ471V	RES,M 470-J-1/10W
R509	ERJ6GEYJ221V	RES,M 220-J-1/10W
R510	**ERG3FJ152H**	**RES,M 1.5K-J-3W CT-36D12DF/DUF CT-36D32F/UF**
R510	**ERG3FJ202H**	**RES,M 2K-J-3W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
R510	**ERG3FJ222H**	**RES,M 2200-J-3W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
R511	**ERG3FJ152H**	**RES,M 1.5K-J-3W CT-36D12DF/DUF CT-36D32F/UF**
R511	**ERG3FJ202H**	**RES,M 2K-J-3W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
R511	**ERG3FJ272H**	**RES,M 2.7K-J-3W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
R512	ERG2FJ392H	RES,M 3.9K-J-2W
R513	ERJ6GEYJ471V	RES,M 470-J-1/10W
R514	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R514	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
R515	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R516	ERJ6GEYJ272V	RES,M 2.7K-J-1/10W
R517	ERJ6GEYJ181V	RES,M 180-J-1/10W
R531	**ERD25FJ470P**	**RES,C 47-J-1/4W**
R532	**ERJ6ENF5362V**	**RES,M 53.6K-F-1/10W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
R532	**ERJ6ENF5602V**	**RES,M 56K-F-1/10W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
R533	**ERJ6ENF1692V**	**RES,M 16.9K-F-1/10W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
R533	**ERJ6ENF2102V**	**RES,M 21K-F-1/10W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
R550	**ERDS1FJ1R0P**	**RES,C 1.0-J-1/2W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF**
R551	**ERDS1FJ1R0P**	**RES,C 1.0-J-1/2W**
R552	**ERDS1FJ1R0T**	**RES,C 1.0-J-1/2W**
R553	ERG3FJ270H	RES,M 27-J-3W
R556	ERJ6GEYJ272V	RES,M 2.7K-J-1/10W
R557	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R558	**ERQ1CZKPR22S**	**RES,F .22-K-1W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
R558	**ERQ2CJP1R3S**	**RES,F 1.3-J-2W CT-36D12DF/DUF CT-36D32F/UF**
R558	**ERQ2CJP1R8S**	**RES,F 1.8-J-2W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
R559	ERG2FJ683H	RES,M 12K-J-2W
R560	TLTABT101K	COIL, PEAKING CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R561	ERG2FJ102H	RES,M 1K-J-2W
R563	ERDS2TJ683T	RES,C 68K-J-1/4W
R564	ERDS2TJ563T	RES,C 56K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R564	ERDS2TJ823T	RES,C 82K-J-1/4W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
R566	**ERDS1FJ1R0P**	**RES,C 1.0-J-1/2W**
R569	ERG2FJ683H	RES,M 12K-J-2W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R573	ERG3FJ180H	RES,M 18-J-3W CT-32D32F/UF CT-36D32F/UF
R573	ERG3FJ220H	RES,M 22-J-3W CT-2707DF/DUF CT-3207DF/DUF SP-3235F/UF
R574	ERG2FJ220H	RES,M 22-J-2W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF
R574	ERG2FJ270H	RES,M 27-J-2W CT-27D12DF/DUF CT-32D12DF/DUF CT-36D12DF/DUF
R601	ERJ6GEYJ391V	RES,M 390-J-1/10W
R618	ERJ6GEYJ474V	RES,M 470K-J-1/10W
R619	ERJ6GEYJ563V	RES,M 56K-J-1/10W
R620	ERJ6GEYJ153V	RES,M 15K-J-1/10W
R752	ERDS2TJ333T	RES,C 33K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R753	ERDS2TJ103T	RES,C 10K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R754	ERG3FJ562	RES,M 5.6K-J-3W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R755	ERDS2TJ563T	RES,C 56K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R756	ERDS2TJ103T	RES,C 10K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R757	ERDS2TJ224T	RES,C 220K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
R758	ERDS2TJ273T	RES,C 27K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R759	ERDS2TJ222T	RES,C 2.2K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R760	EVND8AA03B53	CONTROL 5K CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R761	EVND8AA03B14	CONTROL 10K CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R762	ERDS2TJ182T	RES,C 1.8K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R763	ERDS2TJ183T	RES,C 18K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R764	ERDS2TJ154T	RES,C 150K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R765	ERDS2TJ272T	RES,C 2.7K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R766	ERDS2TJ362T	RES,C 3.6K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R767	ERDS2TJ222T	RES,C 2.2K-J-1/4W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R768	**ERQ2CJP100S**	**RES,F 10-J-2W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
R801	**ERF7ZK1R5**	**RES,W 1.5-K-7W**
R803	ERG1FJ100P	RES,M 10-J-1W CT-27D32F/UF
R804	ERW12PK1R8C	RES,W 1.8-K-1/2W
R805	ERDS2TJ274T	RES,C 27K-J-1/4W
R806	ERDS2TJ274T	RES,C 27K-J-1/4W
R808	ERDS1FJ1R0T	RES,C 1.0-J-1/2W
R809	ERDS1FJ1R0T	RES,C 1.0-J-1/2W
R810	ERDS1FJ272T	RES,C 2.7K-J-1/2W
R812	ERDS1TJ183T	RES,C 18K-J-1/2W
R813	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R815	**ERC12ZGM825D**	**RES,S 8.2MEG-M-1/2**
R818	**ERQ12HJR56P**	**RES,F .56-J-1/2W**
R820	ERJ6GEYJ273V	RES,M 27K-J-1/10W
R821	ERJ6GEYJ392V	RES,M 3.9K-J-1/10W

REF NO.	PART NO.	DESCRIPTION
R822	ERD50FJ474P	RES,C 470K-J-1/2W
R823	ERDS2TJ222T	RES,C 2.2K-J-1/4W
R824	ERG3FJ330H	RES,M 33-J-3W CT-36D12DF/DUF CT-36D32F/UF
R824	ERG3FJ390H	RES,M 39-J-3W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R825	ERDS2TJ102T	RES,C 1K-J-1/4W
R826	**ERF2AKR15P**	**RES,W .15-K-2W CT-36D12DF/DUF CT-36D32F/UF**
R826	**ERF2AKR18P**	**RES,W .18-K-2W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
R826	**ERF2AKR22P**	**RES,W .22-K-2W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
R827	ERDS1FJ561P	RES,C 560-J-1/2W
R828	ERG3FJ470	RES,M 47-J-3W
R829	ERQ14AJ2R2P	RES,F 2.2-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R829	ERQ14AJ6R8P	RES,F 6.8-J-1W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
R901	ERJ6GEYJ331V	RES,M 330-J-1/10W T-36D12DF/DUF CT-36D32F/UF
R902	ERJ6GEYJ561V	RES,M 560-J-1/10W CT-36D12DF/DUF CT-36D32F/UF
R904	ERJ6GEYJ331V	RES,M 330-J-1/10W CT-36D12DF/DUF CT-36D32F/UF
R918	ERDS2TJ121T	RES,C 120-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R952	ERDS2TJ163T	RES,C 16K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R953	ERDS2TJ332T	RES,C 3.3K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R954	ERDS2TJ471T	RES,C 470-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R955	ERDS2TJ390T	RES,C 39-J-1/2W CT-36D12DF/DUF CT-36D32F/UF
R960	ERQ14AJ100P	RES,F 10-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R961	ERQ1CJP102S	RES,F 1K-J-1W CT-36D12DF/DUF CT-36D32F/UF
R962	ERDS2TJ220T	RES,C 22-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R963	ERDS2TJ220T	RES,C 22-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R964	ERDS2TJ271T	RES,C 270-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R965	ERDS2TJ563T	RES,C 56K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R966	ERG1SJ471P	RES,M 470-J-1W CT-36D12DF/DUF CT-36D32F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
R967	ERDS2TJ563T	RES,C 56K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R968	ERDS2TJ271T	RES,C 270-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R969	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R970	ERDS2TJ2R7T	RES,C 2.7-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R971	ERDS2TJ2R7T	RES,C 2.7-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R972	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R973	ERDS1VJ681T	RES,C 680-J-1/2W CT-36D12DF/DUF CT-36D32F/UF
R974	ERDS2TJ333T	RES,C 33K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R987	ERDS2TJ472T	RES,C 4.7K-J-1/4 CT-36D12DF/DUF CT-36D32F/UF
R988	ERDS2TJ471T	RES,C 470-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R989	ERDS2TJ152T	RES,C 1.5K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R990	ERDS2TJ152T	RES,C 1.5K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R991	ERDS2TJ152T	RES,C 1.5K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R1801	ERJ6GEYJ301V	RES,M 300-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1802	ERJ6GEYJ104V	RES,M 100K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1803	ERJ6GEYJ474V	RES,M 470K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1804	ERJ6GEYJ202V	RES,M 2K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1805	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1807	ERJ6GEYJ103V	RES,M 10K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1808	ERJ6GEYJ103V	RES,M 10K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1809	ERJ6GEYJ473V	RES,M 47K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF

REF NO.	PART NO.	DESCRIPTION
R1810	ERJ6GEYJ103V	RES,M 10K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1811	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1812	ERJ6GEYJ153V	RES,M 15K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1813	ERJ6GEYJ153V	RES,M 15K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1814	ERJ6GEYJ271V	RES,M 270-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1815	ERJ6GEYJ361V	RES,M 360-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1818	ERJ6GEYJ101V	RES,M 100-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1819	ERJ6GEYJ101V	RES,M 100-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1822	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1823	ERJ6GEYJ473V	RES,M 47K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1825	ERJ6GEYJ471V	RES,M 470-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1827	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1828	ERJ6GEYJ471V	RES,M 470-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1830	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R1856	ERJ6GEYJ153V	RES,M 15K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
R2106	ERJ6GEYJ183V	RES,M 18K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2109	ERJ6GEYJ683V	RES,M 68K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2110	ERJ6GEYJ331V	RES,M 330-J-1/10W CT-27D32F/UFCT-32D32F/UF CT-36D32F/UF
R2111	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2112	ERJ6GEYJ331V	RES,M 330-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2113	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2114	ERJ6GEYJ681V	RES,M 680-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2116	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2117	ERJ6GEYJ121V	RES,M 120-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2118	EVND8AA03B14	CONTROL 10K CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2119	ERJ6GEYJ392V	RES,M 3.9K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2121	ERJ6GEYJ221V	RES,M 220-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2122	ERJ6GEYJ473V	RES,M 47K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2123	ERJ6GEYJ473V	RES,M 47K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2124	ERJ6GEYJ332V	RES,M 3.3K-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2127	ERJ6GEYJ101V	RES,M 100-J-1/10W CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R2203	ERJ6GEYJ751V	RES,M 750-J-1/10W
R2206	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R2207	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R2221	ERJ6GEYJ101V	RES,M 100-J-1/10W
R2301	ERQ2CJP2R2S	RES,F 2.2-J-2W
R2305	ERD25FJ180T	RES,C 18-J-1/4
R2306	ERD25FJ180T	RES,C 18-J-1/4
R2307	ERJ6GEYJ221V	RES,M 220-J-1/10W
R2308	ERJ6GEYJ221V	RES,M 220-J-1/10W
R2311	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R2312	ERJ6GEYJ752V	RES,M 7.5K-J-1/10W
R2313	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R2318	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W
R2319	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R2321	ERDS2TJ181T	RES,C 180-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
R2322	ERDS2TJ181T	RES,C 180-J-1/4W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
R2323	ERJ6GEYJ822V	RES,M 8.2K-J-1/10W
R2325	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R2329	ERJ6GEYJ751V	RES,M 750-J-1/10W
R2330	ERJ6GEYJ183V	RES,M 18K-J-1/10W
R2332	ERJ6GEYJ751V	RES,M 750-J-1/10W
R2333	ERJ6GEYJ183V	RES,M 18K-J-1/10W
R2334	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R2336	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R2337	ERJ6GEYJ221V	RES,M 220-J-1/10W
R2338	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R2339	ERJ6GEYJ221V	RES,M 220-J-1/10W
R2340	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R2341	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W
R2342	ERJ6GEYJ223V	RES,M 22K-J-1/10W
R2343	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W
R2344	ERJ6GEYJ471V	RES,M 470-J-1/10W
R2345	ERJ6GEYJ223V	RES,M 22K-J-1/10W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
R2345	ERJ6GEYJ561V	RES,M 560-J-1/10W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
R2346	ERJ6GEYJ471V	RES,M 470-J-1/10W
R2350	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W
R2351	ERJ6GEYJ105V	RES,M 1M-J-1/10W
R2352	ERJ6GEYJ105V	RES,M 1M-J-1/10W
R2353	ERJ6GEYJ101V	RES,M 100-J-1/10W
R2355	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W
R2418	ERJ6GEYJ471V	RES,M 470-J-1/10W
R2419	ERJ6GEYJ471V	RES,M 470-J-1/10W
R3001	ERJ6GEYJ101V	RES,M 100-J-1/10W
R3003	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
R3004	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

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REF NO.	PART NO.	DESCRIPTION
R3005	ERJ6GEYJ330V	RES,M 33-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
R3006	ERJ6GEYJ750V	RES,M 75-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
R3007	ERJ6GEYJ750V	RES,M 75-J-1/10W
R3008	ERJ6GEYJ750V	RES,M 75-J-1/10W
R3009	ERJ6GEYJ750V	RES,M 75-J-1/10W
R3010	ERJ6ENF75R0V	RES,M 75.0-F-1/10W
R3011	ERJ6ENF75R0V	RES,M 75.0-F-1/10W
R3012	ERJ6GEYJ750V	RES,M 75-J-1/10W
R3013	ERDS2TJ331T	RES,C 330-J-1/4W
R3014	ERJ6GEYJ330V	RES,M 33-J-1/10W
R3015	ERDS2TJ102T	RES,C 1K-J-1/4W
R3016	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R3017	ERJ6GEYJ330V	RES,M 33-J-1/10W
R3018	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R3019	ERDS2TJ102T	RES,C 1K-J-1/4W
R3020	ERJ6GEYJ330V	RES,M 33-J-1/10W
R3021	ERJ6GEYJ331V	RES,M 330-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
R3290	ERDS2TJ821T	RES,C 820-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R3291	ERDS2TJ332T	RES,C 3.3K-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R3293	ERDS2TJ561T	RES,C 560-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R3294	ERDS2TJ101T	RES,C 100-J-1/4W CT-36D12DF/DUF CT-36D32F/UF
R4310	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4311	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4326	ERD25VJ221T	RES,C 220-J-1/4 CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4327	ERJ6GEYJ331V	RES,M 330-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4328	ERJ6GEYJ560V	RES,M 56-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4329	ERJ6GEYJ182V	RES,M 1.8K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4330	ERJ6GEYJ561V	RES,M 560-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4331	ERJ6GEYJ391V	RES,M 390-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4332	ERJ6GEYJ393V	RES,M 39K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4333	ERJ6GEYJ304V	RES,M 300K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4334	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4336	ERJ6GEYJ680V	RES,M 68-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4338	ERJ6GEYJ222V	RES,M 2.2K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4339	ERJ6GEYJ102V	RES,M 1K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4340	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4341	ERJ6GEYJ222V	RES,M 2.2K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4342	ERJ6GEYJ223V	RES,M 22K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4344	ERJ6GEYJ682V	RES,M 6.8K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R4345	ERJ6GEYJ103V	RES,M 10K-J-1/10W CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
R6501	ERJ6GEYJ471V	RES,M 470-J-1/10W
R6502	ERJ6GEYJ471V	RES,M 470-J-1/10W
R6503	ERJ6GEYJ471V	RES,M 470-J-1/10W
R6505	ERJ6GEYJ471V	RES,M 470-J-1/10W

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
R6509	ERJ6GEYJ471V	RES,M 470-J-1/10W
R6510	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6511	ERJ6GEYJ123V	RES,M 12K-J-1/10W
R6512	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6513	ERJ6GEYJ152V	RES,M 1.5K-J-1/10W
R6515	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6516	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R6518	ERJ6GEYJ333V	RES,M 33K-J-1/10W
R6519	ERJ6GEYJ333V	RES,M 33K-J-1/10W
R6520	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6522	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6523	ERJ6GEYJ562V	RES,M 5.6K-J-1/10W
R6524	ERJ6GEYJ471V	RES,M 470-J-1/10W
R6526	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6535	ERJ6GEYJ181V	RES,M 180-J-1/10W
R6537	ERJ6GEYJ392V	RES,M 3.9K-J-1/10W
R6538	ERJ6GEYJ122V	RES,M 1.2K-J-1/10W
R6540	ERJ6GEYJ151V	RES,M 150-J-1/10W
R6542	ERJ6GEYJ680V	RES,M 68-J-1/10W
R6543	ERJ6GEYJ122V	RES,M 1.2K-J-1/10W
R6544	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6545	ERJ6GEYJ221V	RES,M 220-J-1/10W
R6548	ERJ6GEYJ471V	RES,M 470-J-1/10W
R6549	ERJ6GEYJ222V	RES,M 2.2K-J-1/10W
R6553	ERJ6GEYJ101V	RES,M 100-J-1/10W
R6554	ERJ6GEYJ472V	RES,M 4.7K-J-1/10W
R6555	ERJ6GEYJ153V	RES,M 15K-J-1/10W
R6556	ERJ6GEYJ333V	RES,M 33K-J-1/10W
R6557	ERJ6GEYJ123V	RES,M 12K-J-1/10W
R6558	ERJ6GEYJ103V	RES,M 10K-J-1/10W
R6559	ERJ6GEYJ272V	RES,M 2.7K-J-1/10W
R6560	ERJ6GEYJ124V	RES,M 120K-J-1/10W
R6565	ERJ6GEYJ102V	RES,M 1K-J-1/10W
R6566	ERJ6GEYJ681V	RES,M 680-J-1/10W
R6567	ERJ6GEYJ561V	RES,M 560-J-1/10W
R6568	ERJ6GEYJ471V	RES,M 470-J-1/10W
	SWITCHES	
S001	TSE2AD001	SWITCH, PUSH
S002	TSE2AD001	SWITCH, PUSH
S003	TSE2AD001	SWITCH, PUSH
S004	TSE2AD001	SWITCH, PUSH
S005	TSE2AD001	SWITCH, PUSH
S008	TSE2AD001	SWITCH, PUSH
S009	TSE2AD001	SWITCH, PUSH
	TRANSFORMERS	
T001	**TLP16297**	**TRANSFORMER, POWER SUPPLY**
T501	**TLH15452**	**TRANSFORMER, HORIZONTAL DRIVER**
T502	**ETE19Z30DY**	**TRANSFORMER**
T551	**KFT6AB056F**	**TRANSFORMER (FBT) CT-36D12DF/DUF CT-36D32F/UF**
T551	**TLF2AA002**	**TRANSFORMER, FLYBACK CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
T551	**TLF2AA003**	**TRANSFORMER, FLYBACK CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
T751	**ETE19Z30EY**	**TRANSFORMER CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF**
T801	**ETS29AK3L5NC**	**TRANSFORMER, SWITCHING CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
T801	**ETS29AK3M5NC**	**TRANSFORMER, SWITCHING CT-36D12DF/DUF CT-36D32F/UF**
T801	**TLP2AA003**	**TRANSFORMER CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
	CRYSTALS / FILTERS	
X001	TSSA092	CRYSTAL OSCILLATOR
X501	TSS2AA001	CRYSTAL, 3.58MHZ
X601	TAFCSB503F30	CRYSTAL
X1801	TSSA092	CRYSTAL OSCILLATOR CT-2707DF/DUF CT-3207DF/DUF CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF SP-3235F/UF
X2102	EFCS4R5MW5BA	FILTER, BANDPASS CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
X2103	M1972M	FILTER CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
	OTHERS	
TNR001	**ENGF6101G**	**TUNER CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF**
TNR001	**ENG36604GR**	**TUNER CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-32D12DF/DUF CT-36D12DF/DUF SP-3235F/UF**
TNR002	**ENV56D61G3**	**TUNER CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF**
M001	**TSX2AA0111-1**	**A/C LINE CORD CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
M002	**TSX2AA0112-1**	**A/C LINE CORD CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-36D12DF/DUF CT-36D32F/UF**
M003	**A90LLD361X**	**CRT 36" CT-36D12DF/DUF CT-36D32F/UF**
M004	**M68LGL061X**	**CRT 27" CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
M005	**M80JUA061X**	**CRT 32" CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
M006	**TJSC00300**	**CRT SOCKET**
DY	**KDY42L632F**	**YOKE, DEFLECTION CT-36D12DF/DUF CT-36D32F/UF**
DY	**TLY2AA006**	**DEFLECTION YOKE CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF**
DY	**TLY2AA008**	**DEFLECTION YOKE CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
M007	JH291U-009	YOKE, CONVERGENCE CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
M008	TP-11900PLX	CONVERGENCE YOKE CT-36D12DF/DUF CT-36D32F/UF
M009	TMM2A30702	WEDGE, YOKE
DEG	**TLK2AA0011**	**COIL, DEGAUSSING CT-27D12DF/DUF CT-27D32F/UF**
DEG	**TSP2AA017**	**COIL, DEGAUSSING CT-2707DF/DUF**
M010	**TXANV02ESER**	**REPAIR KIT (DEG. COIL) CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF**
M011	**TXANV04ESER**	**REPAIR KIT (DEG. COIL) CT-36D12DF/DUF CT-36D32F/UF**
M012	0FMK014ZZ	CONVERGENCE CORRECTOR STRIP
M013	TXF3A01AFRA	ASSY, DAG GND CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF SP-3235F/UF
M014	TXF3A011EV	ASSY., DAG GND CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
M015	TXF3A025QA	ASSY., DAG GND CT-36D12DF/DUF CT-36D32F/UF
M016	TAS2AA0015	SPEAKER 8-OHM 5W CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
M017	TAS2AA0016	SPEAKER 8-OHM 5W CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
M018	TBM2AA0021	BADGE, PANASONIC CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF
M019	TBM2A10141	BADGE, PANASONIC CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF
M020	TBX2AA0121	BUTTON, 7-KEY CT-27D12DF/DUF CT-27D32F/UF
M021	TBX2AA0131	BUTTON, 7-KEY CT-32D12DF/DUF CT-32D32F/UF
M022	TBX2AA0141	BUTTON, 7-KEY CT-36D12DF/DUF CT-36D32F/UF
M023	TBX2AA1001AG	BUTTON, 7-KEY SP-3235F/UF
M024	TBX2AA1701GS	BUTTON, 7-KEY CT-2707DF/DUF CT-3207DF/DUF

REF NO.	PART NO.	DESCRIPTION
M025	TXANV01ESER	7-KEY BUTTON CT-27D12DF/DUF CT-27D32F/UF
M026	TEK6935	DOOR, CATCH CT-36D12DF/DUF CT-36D32F/UF
M027	TKX2AA00401	GUIDE, IR CT-2707DF/DUF CT-3207DF/DUF
M028	TKX2AA00404	GUIDE, IR CT-27D12DF/DUF CT-27D32F/UF
M029	TKX2AA00405	GUIDE, IR CT-32D12DF/DUF CT-32D32F/UF
M030	TKX2AA00406	GUIDE, IR CT-36D12DF/DUF CT-36D32F/UF
M031	TKX2A3753	GUIDE, IR SP-3235F/UF
M032	TMW2A97121	STRAIN RELIEF: AC LINE CORD CT-2707DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
M033	TBM17454-2	NAMEPLATE: QUASAR SP-3235F/UF
M034	TKP2AA00601	SMOKED SHEET CT-36D12DF/DUF CT-36D32F/UF SP-3235F/UF
M035	TXFKU02FSER	ASSY, CABINET BACK SP-3235F/UF
M036	TXFKU09ESER	ASSY, CABINET BACK CT-36D12DF/DUF CT-36D32F/UF
M037	TXFKU10ESER	ASSY, CABINET BACK CT-3207DF/DUF CT-32D12DF/DUF CT-32D32F/UF
M038	TXFKY02ESER	ASSY, CABINET FRONT CT-2707DF/DUF
M039	TXFKY03ESER	ASSY, CABINET BACK SP-3235F/UF
M040	TXFKY07FSER	ASSY, CABINET FRONT CT-3207DF/DUF
M041	TXFKY11ESER	ASSY, CABINET FRONT CT-32D12DF/DUF CT-32D32F/UF
M042	TXFKY12ESER	ASSY, CABINET FRONT CT-36D12DF/DUF CT-36D32F/UF
JK3001	TJB2AA0221	TERMINAL, A/V 8P
JK3002	TJB2AA0045	TERMINAL, FRONT A/V CT-36D12DF/DUF CT-36D32F/UF
JK3002	TJB2AA0046	TERMINAL, FRONT A/V CT-2707DF/DUF CT-3207DF/DUF CT-27D12DF/DUF CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF
JK3003	TJB2AA0171	TERMINAL, S-VHS
JK3004	TJB2AA0211-1	TERMINAL, A/V 2P
		ACCESSORIES
M043	EUR511501	REMOTE CONTROL CT-3207DF/DUF
M044	EUR511511	REMOTE CONTROL CT-2707DF/DUF
M045	EUR511514	XMTR, REMOTE CONTROL SP-3235F/UF
M046	EUR7613Z10	REMOTE CONTROL CT-27D12DF/DUF CT-32D12DF/DUF CT-36D12DF/DUF
M047	EUR7613Z30	XMTR, REMOTE CONTROL CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF

REPLACEMENT PARTS LIST

Models: CT-2707DF, CT-2707DUF, CT-27D12DF, CT-27D12DUF, CT-27D32F, CT-27D32UF, CT-3207DF, CT-3207DUF, CT-32D12DF, CT-32D12DUF, CT-32D32F, CT-32D32UF, CT-36D12DF, CT-36D12DUF, CT-36D32F, CT-36D32UF, SP-3235F, SP-3235UF

Important Safety Notice: Components printed in **BOLD TYPE** have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

REF NO.	PART NO.	DESCRIPTION
M048	UR51EC975A	BATTERY COVER, REMOTE CON CT-2707DF/DUF CT-3207DF/DUF SP-3235F/UF
M049	UR76EC0303A	BATTERY COVER, REMOTE CON CT-27D32F/UF CT-32D12DF/DUF CT-32D32F/UF CT-36D12DF/DUF CT-36D32F/UF CT-27D12DF/DUF
M050	TQB2AA0384	MANUAL, OWNERS CT-27D12DF/DUF CT-32D12DF/DUF CT-36D12DF/DUF
M051	TQB2AA0397	MANUAL, OWNERS CT-2707DF/DUF CT-3207DF/DUF

REF NO.	PART NO.	DESCRIPTION
M052	TQB2AA0401	MANUAL, OWNERS CT-27D32F/UF CT-32D32F/UF CT-36D32F/UF
M053	TQB2AA0413	MANUAL, OWNERS SP-3235F/UF

PARTS LIST ABBREVIATIONS GUIDE

RESISTOR

TYPE		TOLERANCE	
C	Carbon	F	± 1%
F	Fuse	J	± 5%
M	Metal Oxide	K	± 10%
S	Solid	M	± 20%
W	Wire Wound	G	± 2%

RES, C 270-J-1/4

CAPACITOR

TYPE		TOLERANCE	
C	Ceramic	C	± 0.25pF
E	Electrolytic	D	± 0.5pF
P	Polyester	F	± 1pF
S	Styrol	J	± 5%
T	Tantalum	K	± 10%
		L	± 15%
		M	± 20%
		P	+10% -0%
		Z	+80% -20%

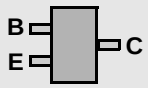
CAP, P .068UF-K-50V

Schematic Notes

IMPORTANT SAFETY NOTICE

THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES THAT ARE IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS DESIGNATED WITH A ⚠ IN THE SCHEMATIC.

CHIP TRANSISTOR LEAD DESIGNATION



SCHEMATIC NOTES

1. Resistors are carbon 1/4W unless noted otherwise.
2. Capacitors are ceramic 50V unless noted otherwise.
3. Coil value notes is inductance in μH.
4. Test point indicated by ; Test point but no pin .
5. Components indicated with ⚠ are critical parts and replacement should be made with manufacture specified replacement parts only.
6. ▬▬ (**BOLD LINE**) indicates the route of B+ supply.
7. The schematic diagrams are current at the time of printing and are subject to change without notice.
8. Ground symbol ⏚ indicates **HOT GROUND CONNECTION**; ⏚ indicates COLD GROUND.

NOTE: All other component symbols are used for engineering design purposes.

VOLTAGE MEASUREMENTS

1. Voltage measurement:
   - AC input to the Receiver is 120V. NTSC (HD, 1125i & 525P when applicable) signal generator is connected to the antenna of the Receiver. (Color bar pattern of 100 IRE white and 7.5 IRE black.)
   - All Picture and Audio adjustments are set to Normalize.
     TV ANT/CABLE - (Set-Up Menu) in TV/ANT Mode
     Volume - Min.
     TV/Video SW - TV position
     Audio Mode - Stereo
   - Voltage readings are nominal and may vary ±10% on active devices. Some voltage reading will vary with signal strength and picture content.
   - Supply voltages are nominal.
2. Ground symbol ⏚ indicates ground lead connection of meter.
   Incorrect ground connection will result in erroneous readings.

CAUTION: ***Incorrect ground connection of the test equipment will result in erroneous readings.***

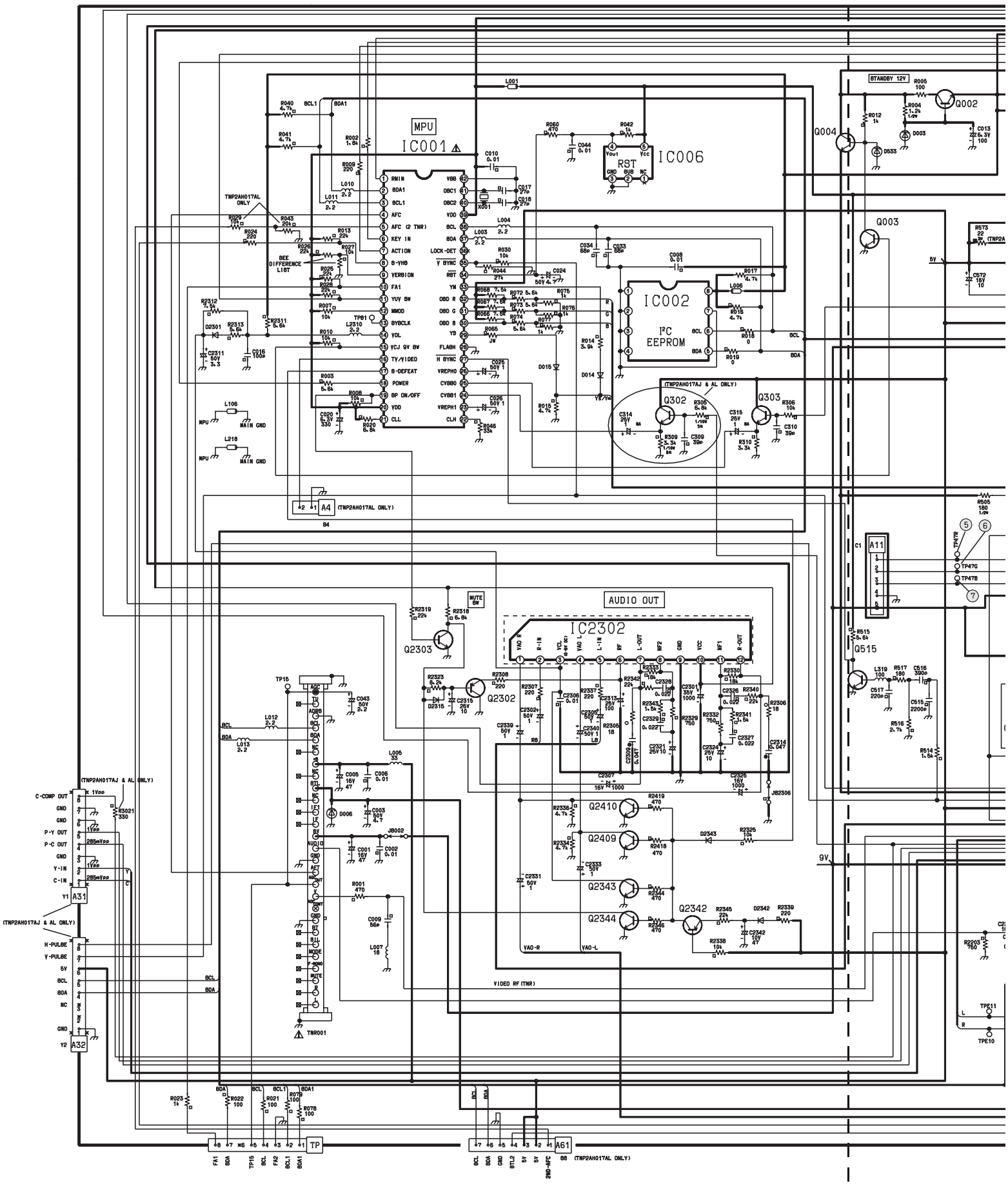
WAVEFORM MEASUREMENTS

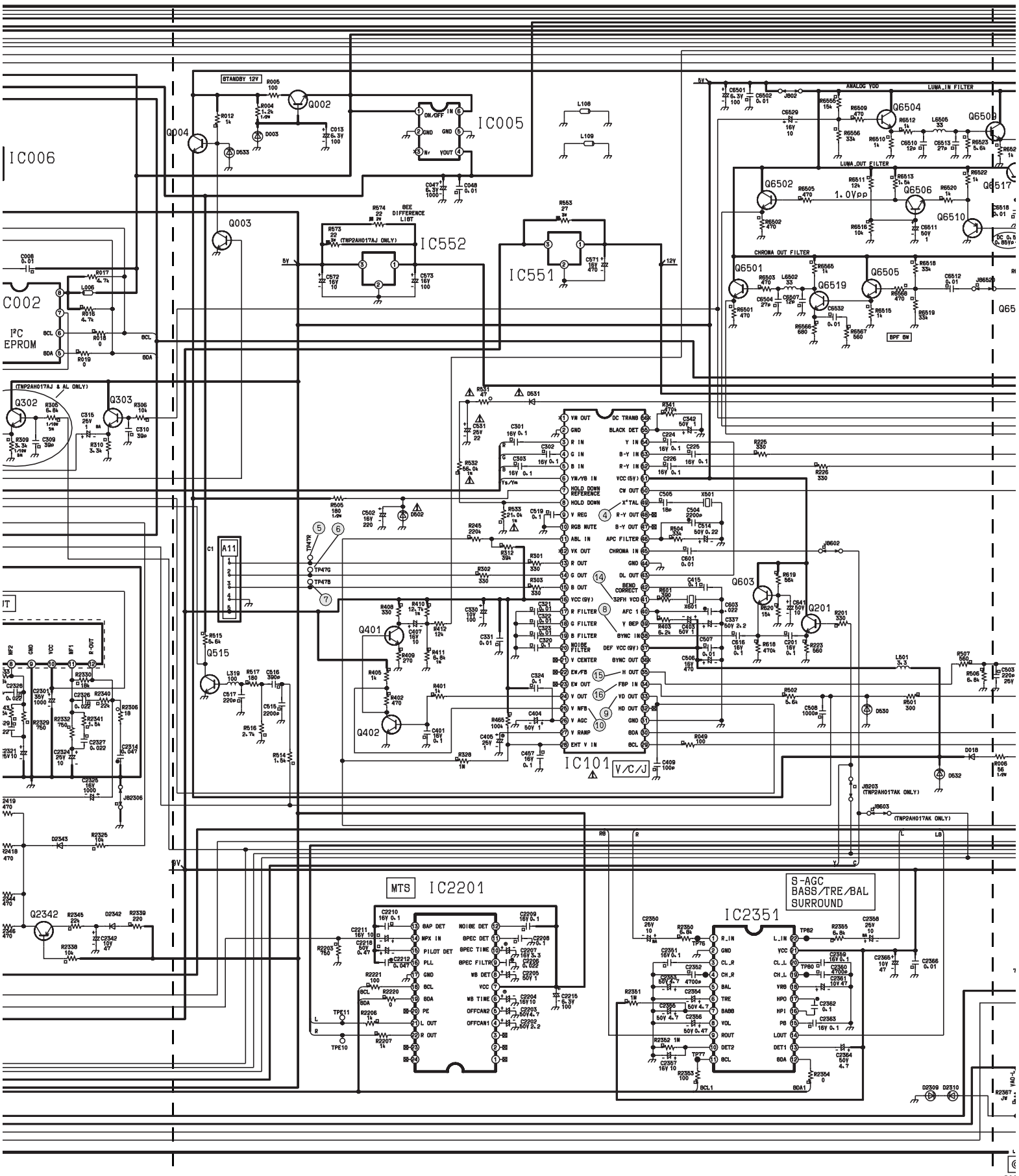
1. ③ indicates waveform measurement. (Measurement can be taken at the best accessible location in common to the indicated point.)
2. Taken with an NTSC signal generator connected to the antenna terminal. (NTSC color bar pattern of 8 bars of EIA colors, 100 IRE white and 7.5 IRE black.)
3. Customer Controls (Picture/Audio Menu) are set to Normalize. Volume is set to “MIN”.
4. All video and color waveforms are taken with a wideband scope and a probe with low capacitance (10 to 1). Shape and peak altitudes may vary depending on the type of Oscilloscope used and its settings.
5. Ground symbol ⏚ shown on waveform number indicates (Hot) ground lead connection of the Oscilloscope.

CAUTION: Incorrect ground connection of the test equipment will result in erroneous readings.

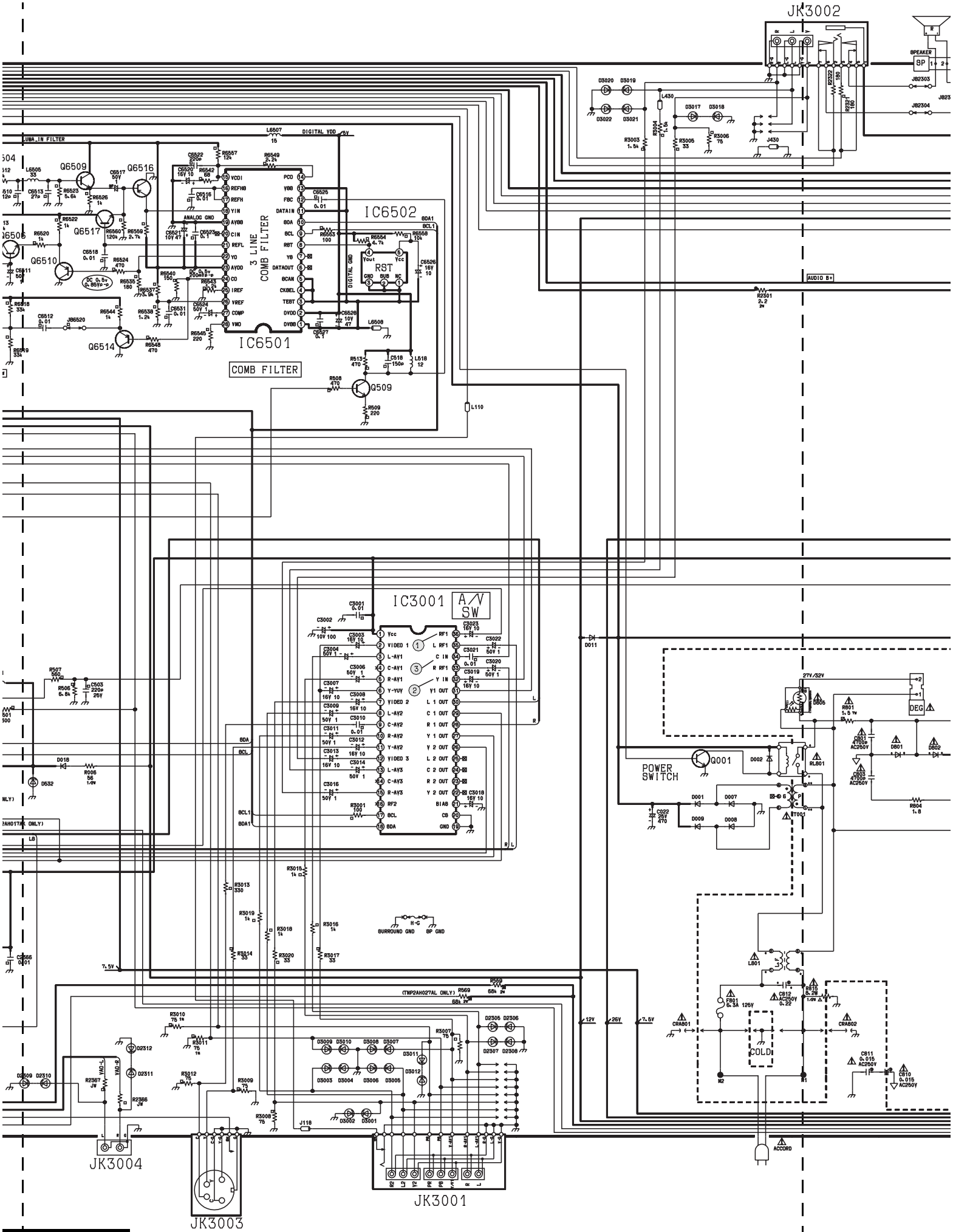
Important notice:

Values for components noted in schematics are subject to change without any notice or obligation, so please check parts list for component value or part number


MPU
IC001
IC002
I²C
EEPROM
IC006
RST
IC2302
AUDIO OUT
STANDBY 12V
Q002
Q003
Q004
Q302
Q303
Q2302
Q2303
Q2342
Q2343
Q2344
Q2409
Q2410
Q515
D003
D533
D006
D015
D014
TP15
TP47R
TP47G
TP47B
TPE11
TPE10
A4
A11
A31
A32
A61
TP
TNR001
J82306
J83002
L001
L004
L006
L106
L218
TP81
MUTE
BEE DIFFERENCE LIST
TMP2AH017AL ONLY
(TMP2AH017AL ONLY)
(TMP2AH017AJ & AL ONLY)
MAIN GND
VIDEO RF (TNR)
9V
5V
C-COMP OUT
P-Y OUT
P-C OUT
Y-IN
C-IN
H-PULSE
V-PULSE
SCL
SDA


IC005
IC552
IC551
IC101
V/C/J
IC2201
MTS
IC2351
S-AGC
BASS/TRE/BAL
SURROUND
IC006
C002
I²C
EPROM
STANDBY 12V
AMALG VDD
LUMA_IN FILTER
LUMA_OUT FILTER
CHROMA OUT FILTER
1.0Vpp
BPF BW
BEE
DIFFERENCE
LIST
(TNP2AH017AJ & AL ONLY)
(TNP2AH017AJ ONLY)
(TNP2AH017AK ONLY)
Q002
Q003
Q004
Q302
Q303
Q401
Q402
Q515
Q603
Q201
Q2342
Q6501
Q6502
Q6504
Q6505
Q6506
Q6508
Q6510
Q6519
D003
D533
D502
D530
D532
D018
D2343
D2342
D2309
D2310
L006
L106
L109
L501
J8602
J8603
J8203
J82306
TP47R
TP47G
TP47B
TPE11
TPE10
TP76
TP77
TP80
TP82
BCL
BDA
5V
9V
12V
R5
R
L
LB
V
C

A Board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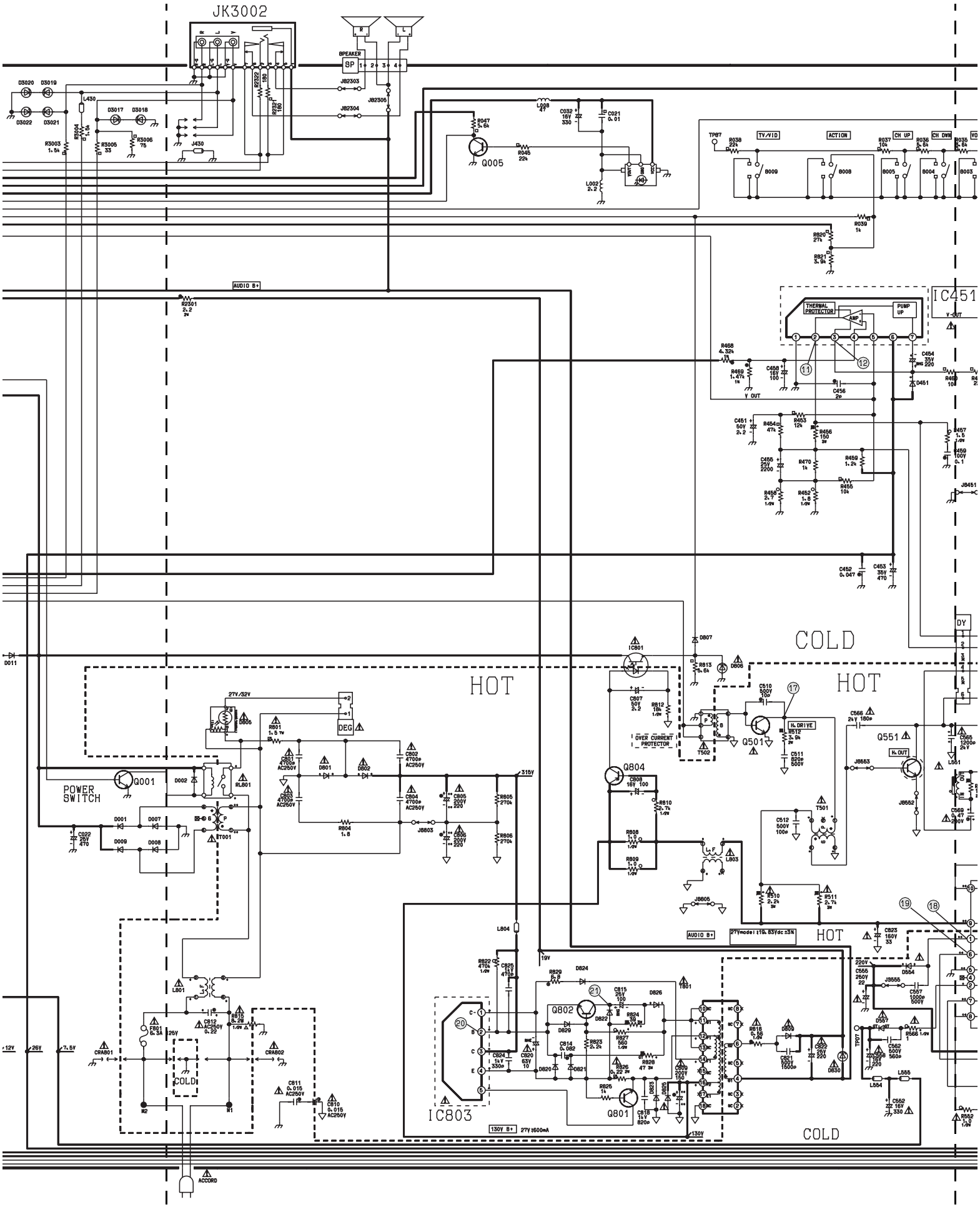
SPEAKER
SP
IC6502
IC6501
3 LINE COMB FILTER
RST
COMB FILTER
Q6509
Q6516
Q6517
Q6506
Q6510
Q6514
Q509
IC3001
A/V SW
POWER SWITCH
Q001
DEG
COLD
ACCORD
JK3004
JK3003
JK3001
AUDIO B+
DIGITAL VDD 5V
DIGITAL GND
7.5V
12V
26V
7.6V
27V/32V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SPEAKER
SP
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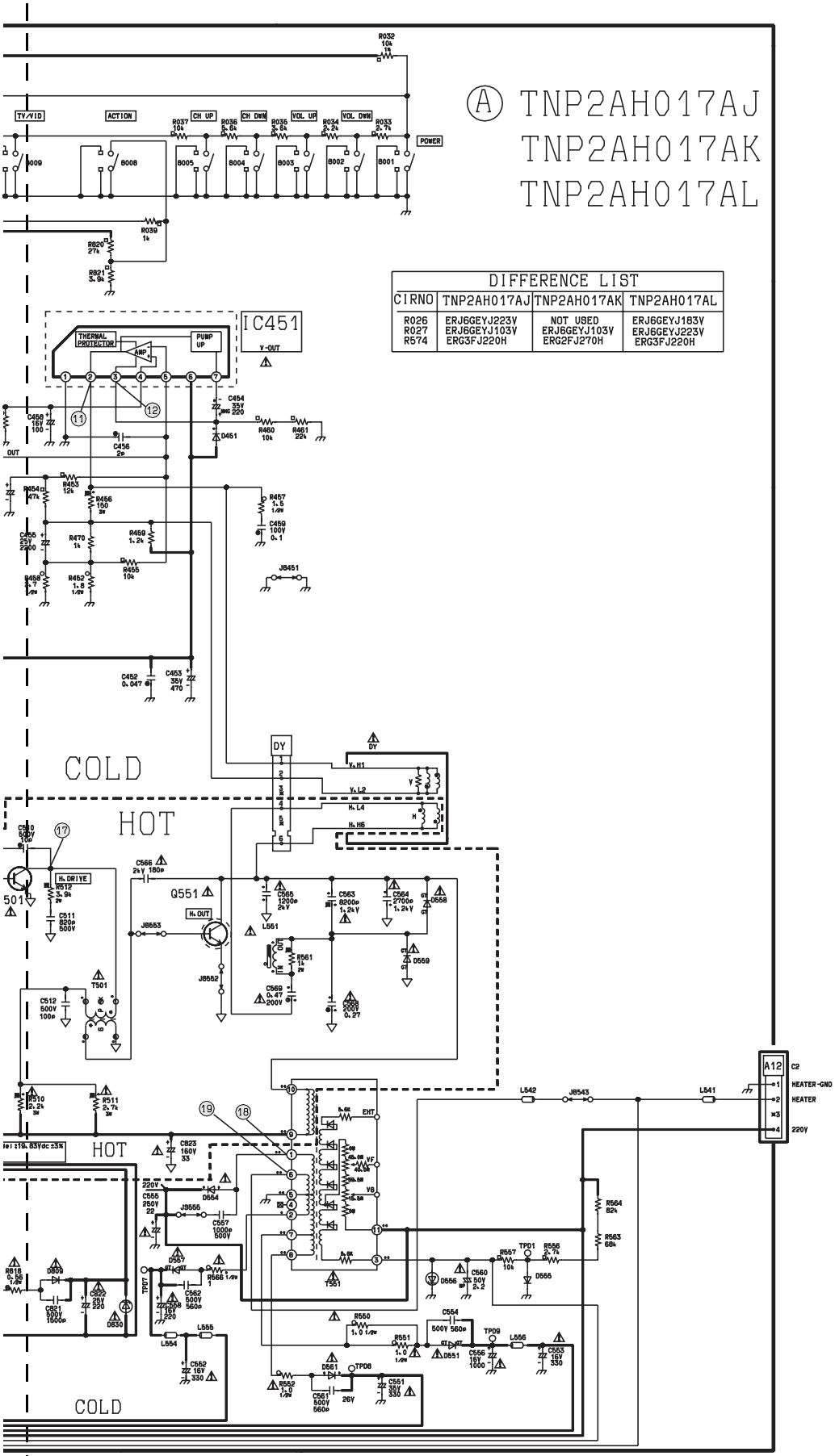
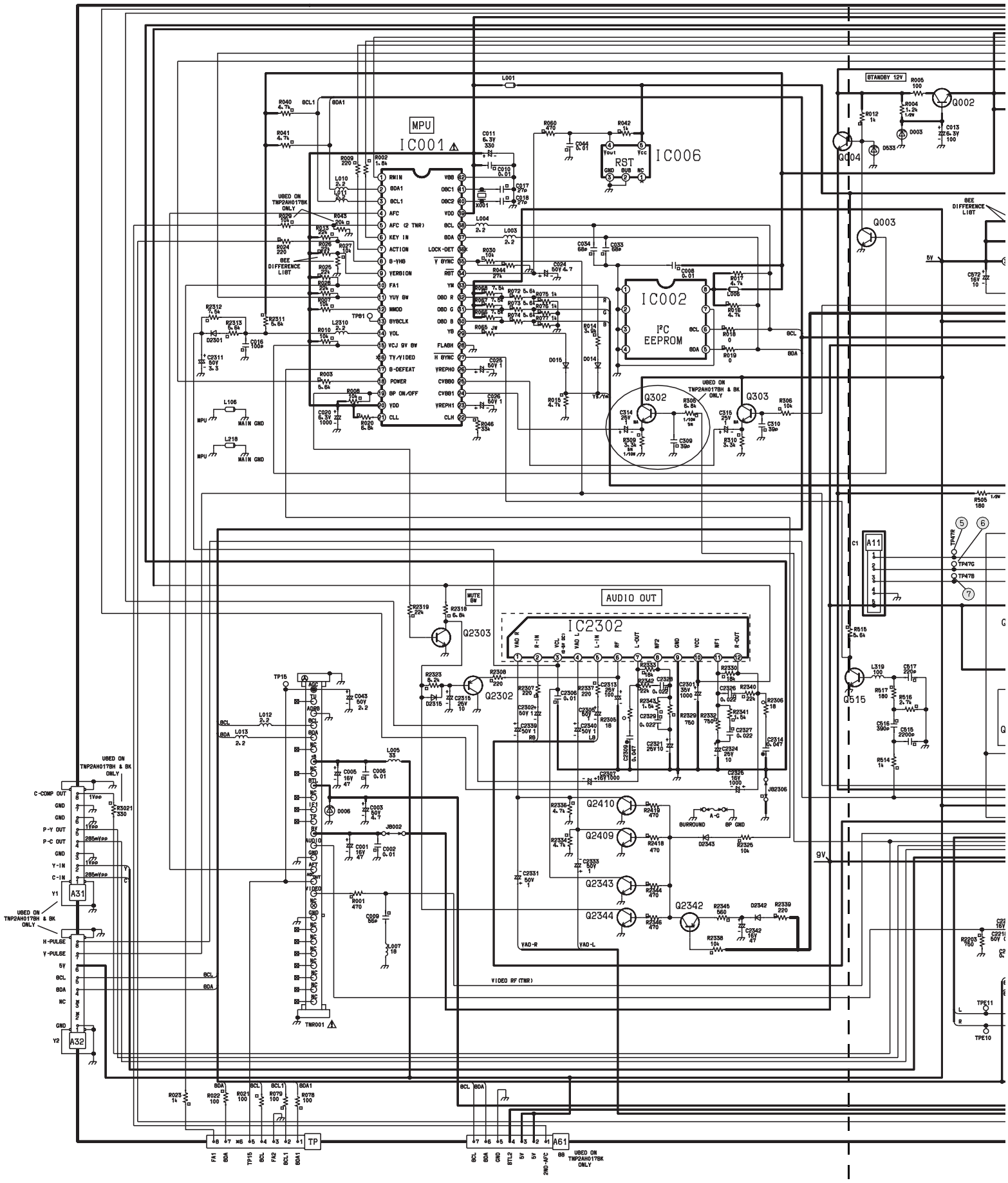
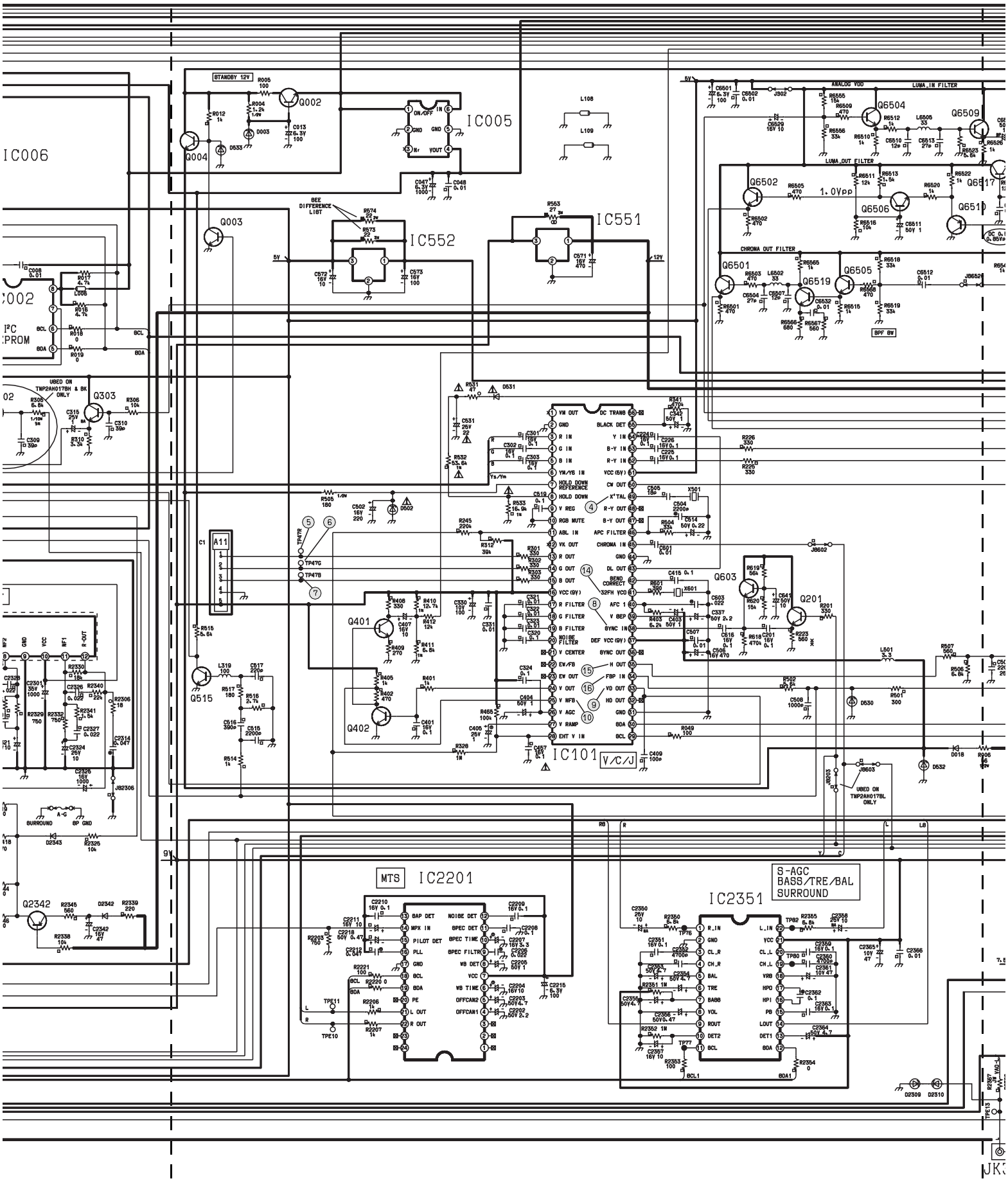
J82304
J82305
J430
L430
D3020
D3019
D3022
D3021
D3017
D3018
R3003
R3004
R3005
R3006
R2322
R2323
Q005
R047
R045
L008
C032
C021
L002
TP87
TV/VID
ACTION
CH UP
CH DWN
B009
B008
B005
B004
B003
R039
R820
R821
AUDIO B+
R2501
IC451
THERMAL PROTECTOR
PUMP UP
AMP
V OUT
R468
R469
C458
C454
C456
C451
R454
R463
R456
R457
R459
R470
R455
R458
R452
C452
C453
J8451
D011
COLD
HOT
IC801
D807
D806
R813
C807
R812
OVER CURRENT PROTECTOR
T502
Q501
H. DRIVE
C510
C511
Q551
H. OUT
C566
C565
C569
J8653
J8652
T501
C512
L803
J8805
R510
R511
Q804
C808
R810
R808
R809
POWER SWITCH
Q001
D001
D007
D009
D008
D002
RL801
BT001
C022
D801
D802
C801
C802
C803
C804
C805
C806
R801
R804
R805
R806
DEG
315V
J8803
L804
L801
F801
C812
R815
CRA801
CRA802
C811
C810
M2
M1
ACCORD
R822
C825
R829
D824
Q802
C815
D826
D822
R824
D829
R827
C814
C824
C820
R823
R828
D820
D821
R826
Q801
C818
D823
D825
IC803
130V B+
27V 1600mA
130V
R818
D809
C821
D830
C822
C823
D554
C555
C557
J8555
D557
C562
R566
L554
L555
C552
R552
TP97
DY
19V
27V/32V
12V
26V
7.6V

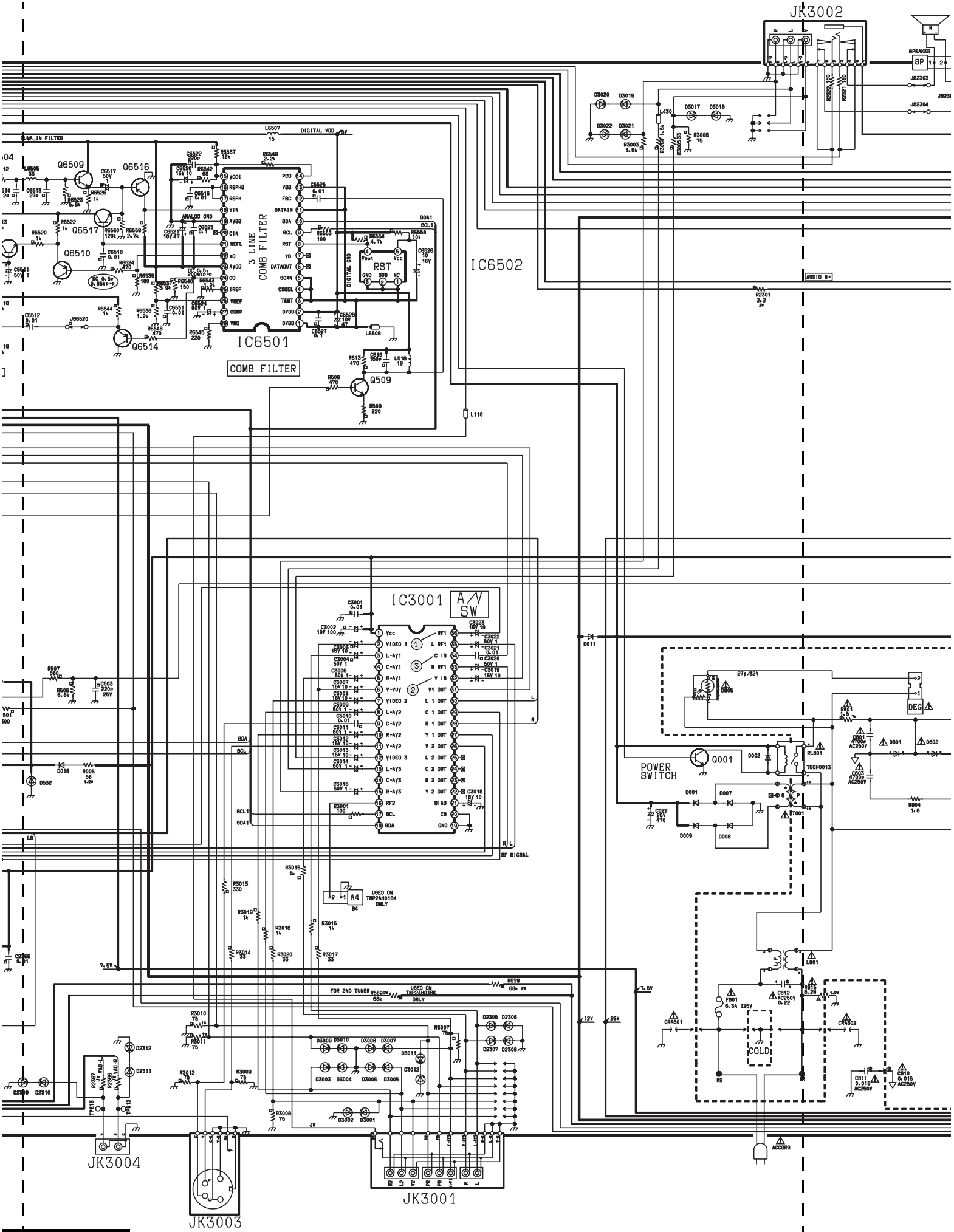
A Board


Ⓐ TNP2AH017AJ
TNP2AH017AK
TNP2AH017AL
DIFFERENCE LIST
CIRNO | TNP2AH017AJ | TNP2AH017AK | TNP2AH017AL
R026 | ERJ6GEYJ223V | NOT USED | ERJ6GEYJ183V
R027 | ERJ6GEYJ103V | ERJ6GEYJ103V | ERJ6GEYJ223V
R574 | ERG3FJ220H | ERG2FJ270H | ERG3FJ220H
IC451
COLD
HOT
HOT
COLD
A12
HEATER-GND
HEATER
220V


MPU
IC001
IC006
RST
IC002
I²C EEPROM
AUDIO OUT
IC2302
STANDBY 12V
Q002
Q003
Q004
Q302
Q303
Q2302
Q2303
Q2342
Q2343
Q2344
Q2409
Q2410
Q515
D003
D533
D2301
D2343
D2344
TNR001
A31
A32
A61
A11
TP
TP15
TP01
TP47R
TP47G
TP47B
TPE11
TPE10
JB2306
JB002
MUTE 8V
9V
5V
BCL
BDA
VIDEO RF (TNR)
YAO-R
YAO-L
BURROUND
A-G
BP GND
SEE DIFFERENCE L18T
USED ON TNP2AH017BK ONLY
USED ON TNP2AH017BH & BK ONLY
C-COMP OUT
P-Y OUT
P-C OUT
Y-IN
C-IN
Y1
Y2
H-PULSE
V-PULSE
FA1
FA2
BCL1
BDA1
ACC
AUDIO
VIDEO
MAIN GND
MPU


IC101
V/C/J
IC005
IC006
IC551
IC552
IC2201
MTS
IC2351
S-AGC
BASS/TRE/BAL
SURROUND
STANDBY 12V
ANALOG VDD
LUMA IN FILTER
LUMA OUT FILTER
CHROMA OUT FILTER
1.0Vpp
USED ON TMP2AH017BH & BK ONLY
USED ON TMP2AH017BL ONLY
SEE DIFFERENCE LIST
BPF 8W
SURROUND
A-G
BP GND

A Board


JK3002
IC6502
IC6501
COMB FILTER
3 LINE COMB FILTER
IC3001
A/V SW
Q6509
Q6516
Q6517
Q6510
Q6514
Q509
RST
DIGITAL VDD 5V
DIGITAL GND
ANALOG GND
AUDIO B+
SPEAKER
SP
POWER SWITCH
Q001
RL801
TBEH0013
D001
D002
D007
D008
D009
T001
D011
D805
D801
D802
DEG
D0532
D018
D3020
D3019
D3022
D3021
D3017
D3018
L430
R3003 1.5k
R3005 33
R3006 75
R2322 180
R2321 180
JB2303
JB2304
JB2305
JB2306
R2501 2.2
RF SIGNAL
USED ON TNP2AH01BK ONLY
FOR 2ND TUNER
USED ON TNP2AH01BK ONLY
7.5V
12V
26V
COLD
ACCORD
CRA801
CRA802
FB01 6.3A 125V
L801
JK3004
JK3003
JK3001
D2312
D2311
D2310
D2309
D2305
D2306
D2307
D2308
D3009
D3010
D3008
D3007
D3011
D3012
D3003
D3004
D3006
D3005
D3002
D3001
R3001 100
R3002 75
R3003 75
R3004 75
R3005 75
R3006 75
R3007 75
R3008 75
R3009 75
R3010 75
R3011 75
R3012 75
R3013 330
R3014 33
R3015 1k
R3016 1k
R3017 33
R3018 1k
R3019 1k
R3020 33
R559 68k 2W
R569 68k 2W
C2366 0.01
C503 220p 25V
C811 4700p AC250V
C812 AC250V 0.22
C810 0.015 AC250V
C811 0.015 AC250V
C022 22 25V 470
R507 560
R506 6.8k
R831 6.8 7W
R804 1.8
L110
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L6518 0.01
L6520 1k
L6522 1k
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L6525 0.01
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L6530 104
L6531 0.01
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L6535 180
L6536 1.2k
L6537 3.9k
L6538 1.2k
L6539 470
L6540 150
L6541 0.1
L6542 68
L6543 0.1
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L6545 220
L6546 470
L6547 470
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L6552 0.1
L6553 0.1
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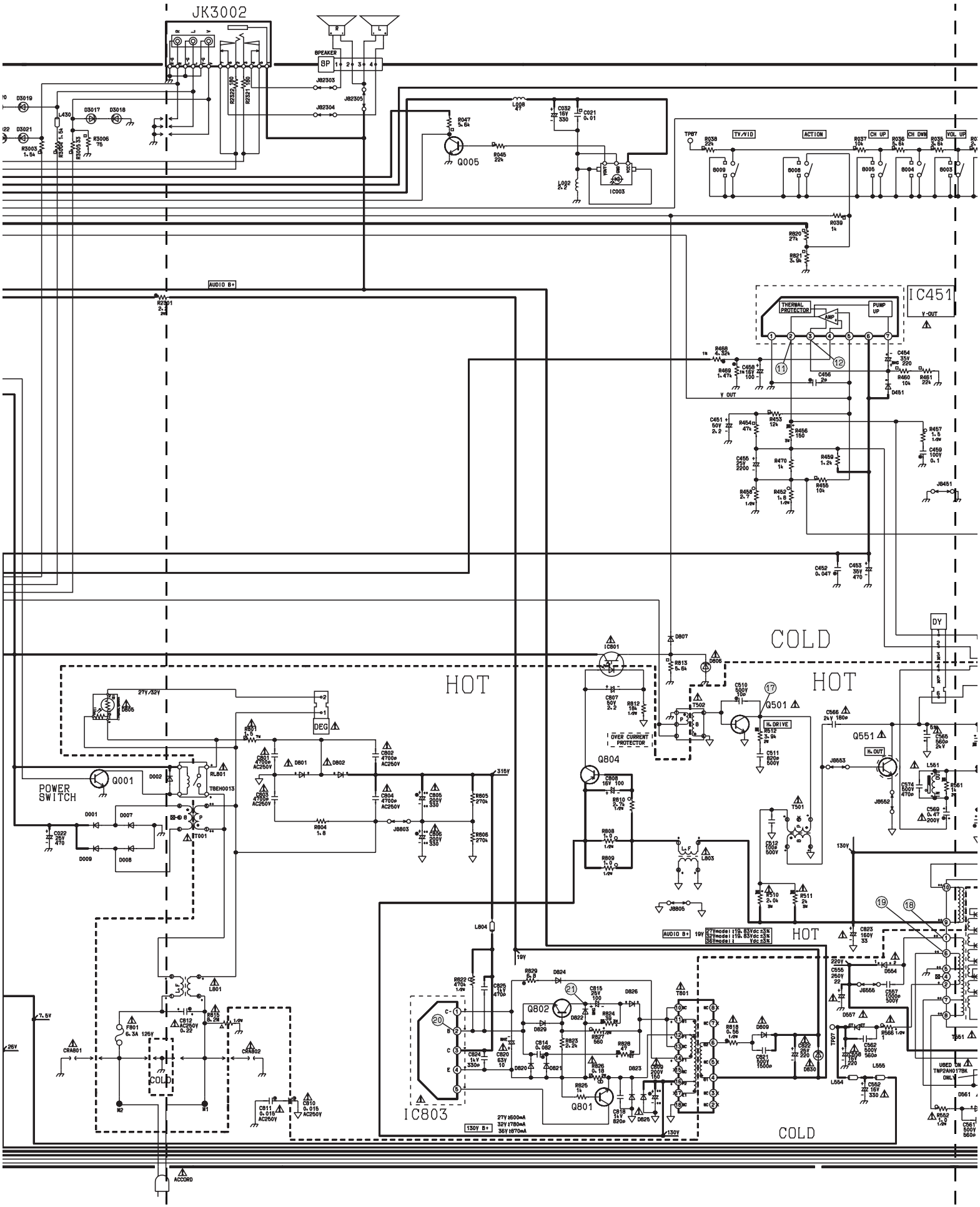
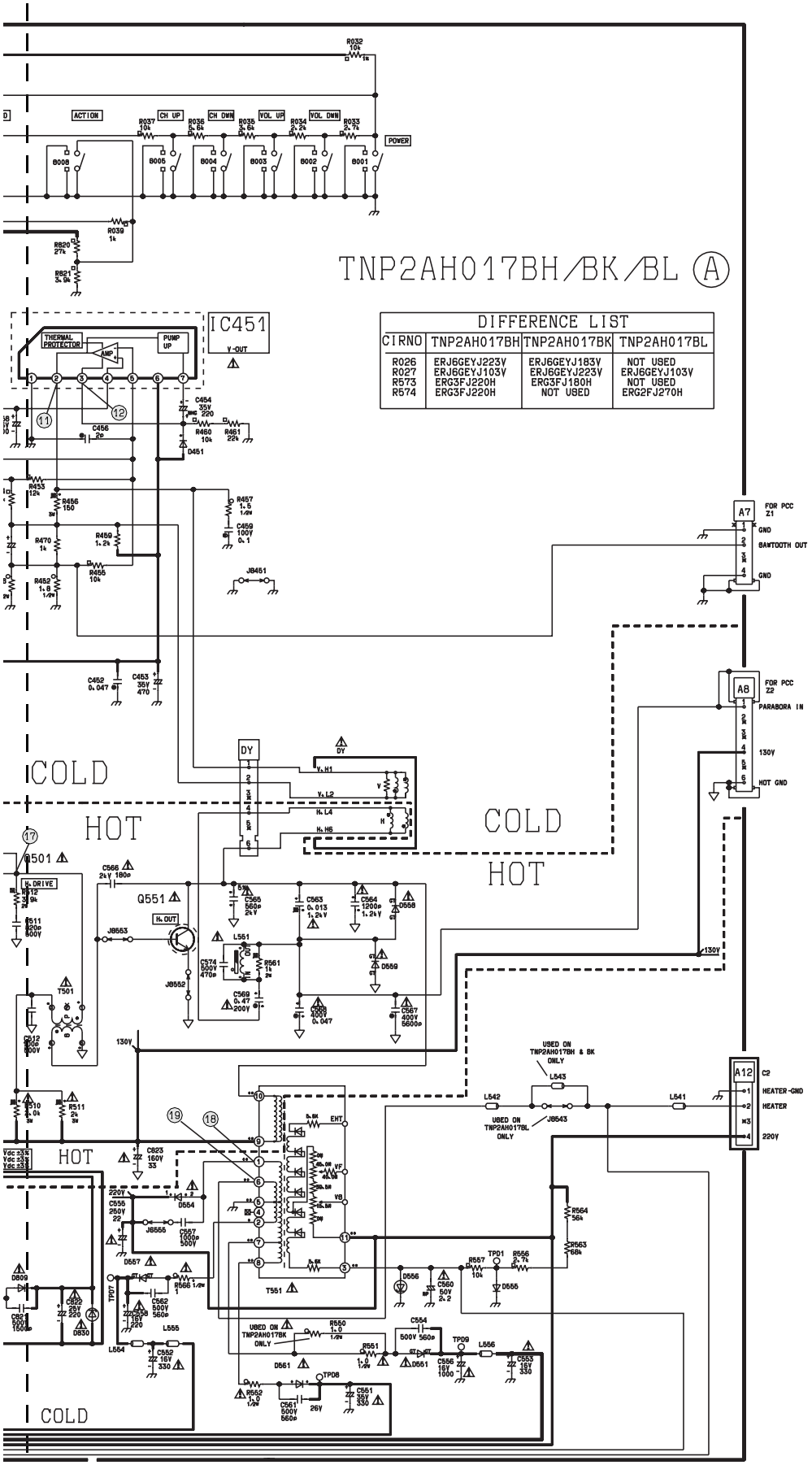
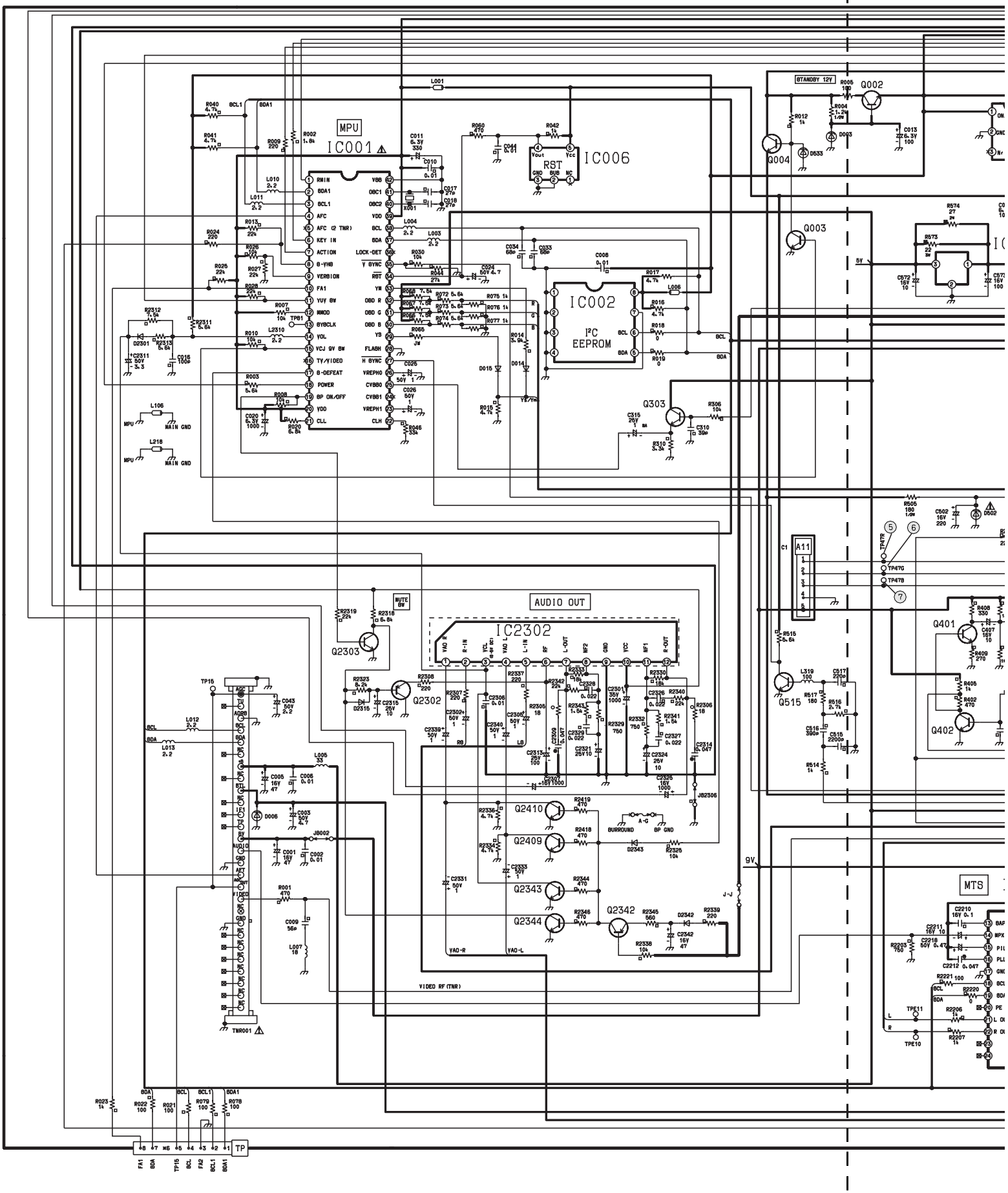
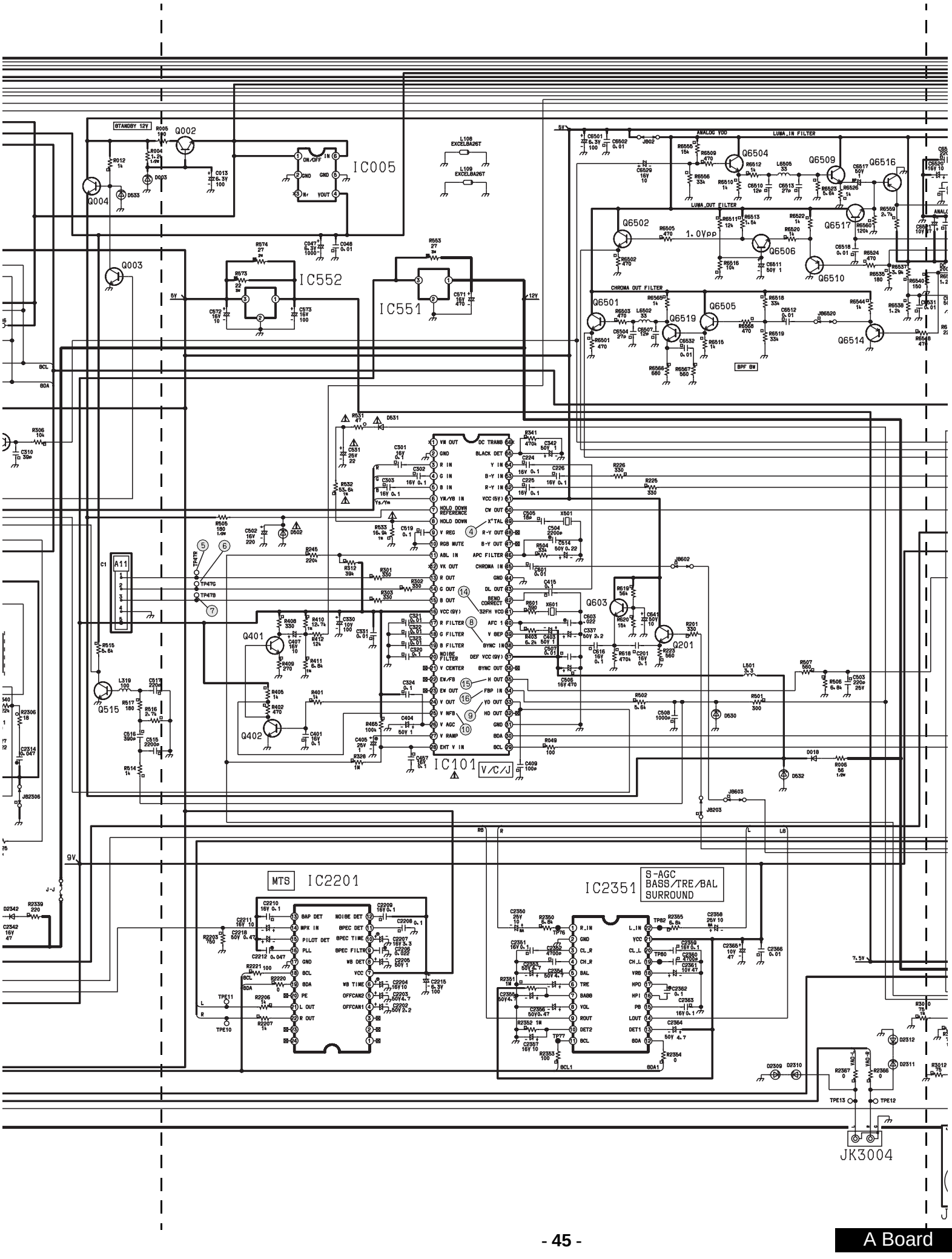
L6994 0.01
L6995 0.01
L6996 0.01
L6997 0.01
L6998 0.01
L6999 0.01
L7000 0.01

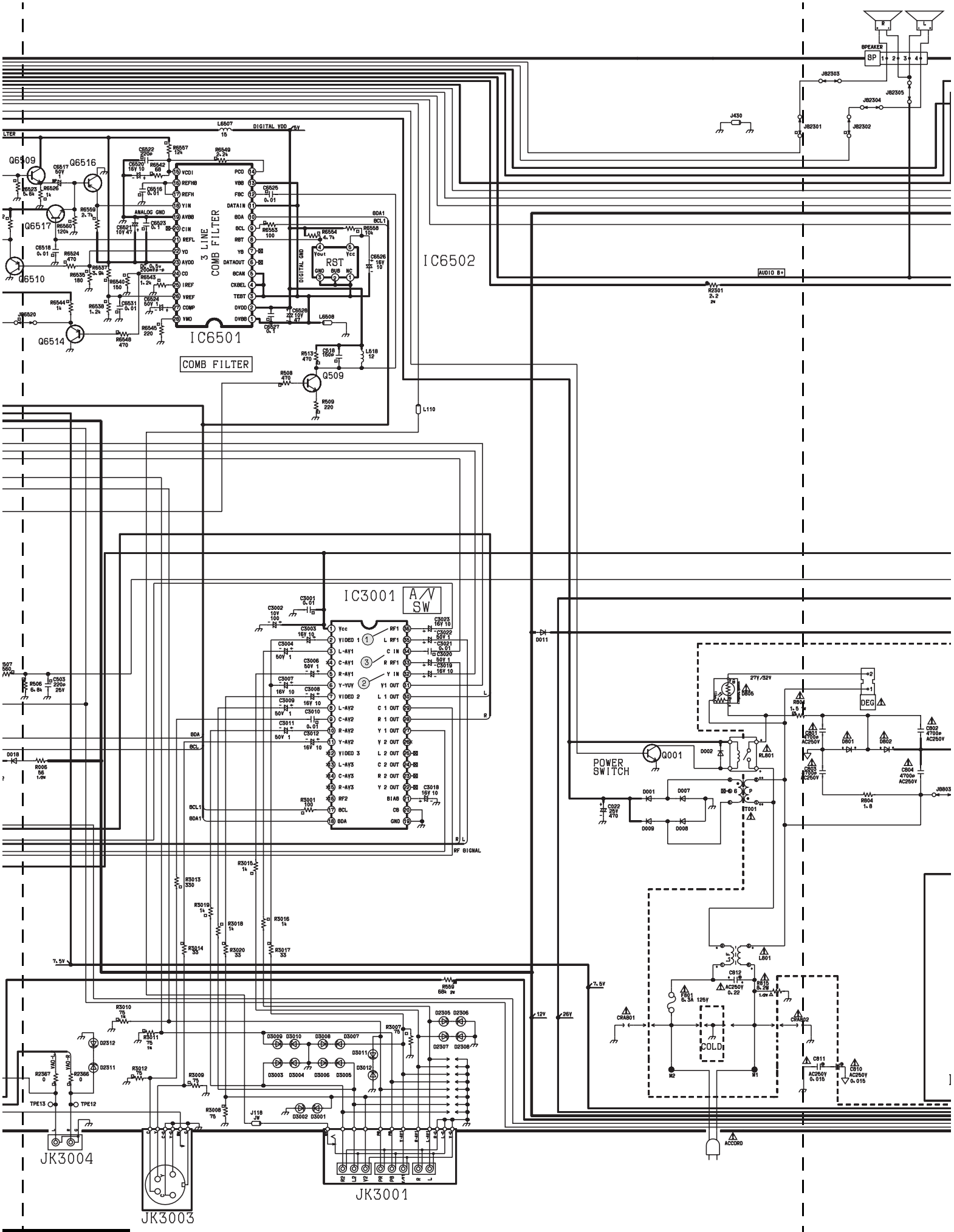

JK3002
SPEAKER
SP
IC451
THERMAL PROTECTOR
PUMP UP
AMP
V-OUT
V OUT
AUDIO B+
HOT
COLD
POWER SWITCH
Q001
Q005
Q501
Q551
Q804
Q802
Q801
IC801
IC803
IC003
T501
T502
T801
L803
L804
OVER CURRENT PROTECTOR
H. DRIVE
H. OUT
DEG
DY
TV/VID
ACTION
CH UP
CH DWN
VOL UP
ACCORD
USED ON TNP2AH017BK ONLY

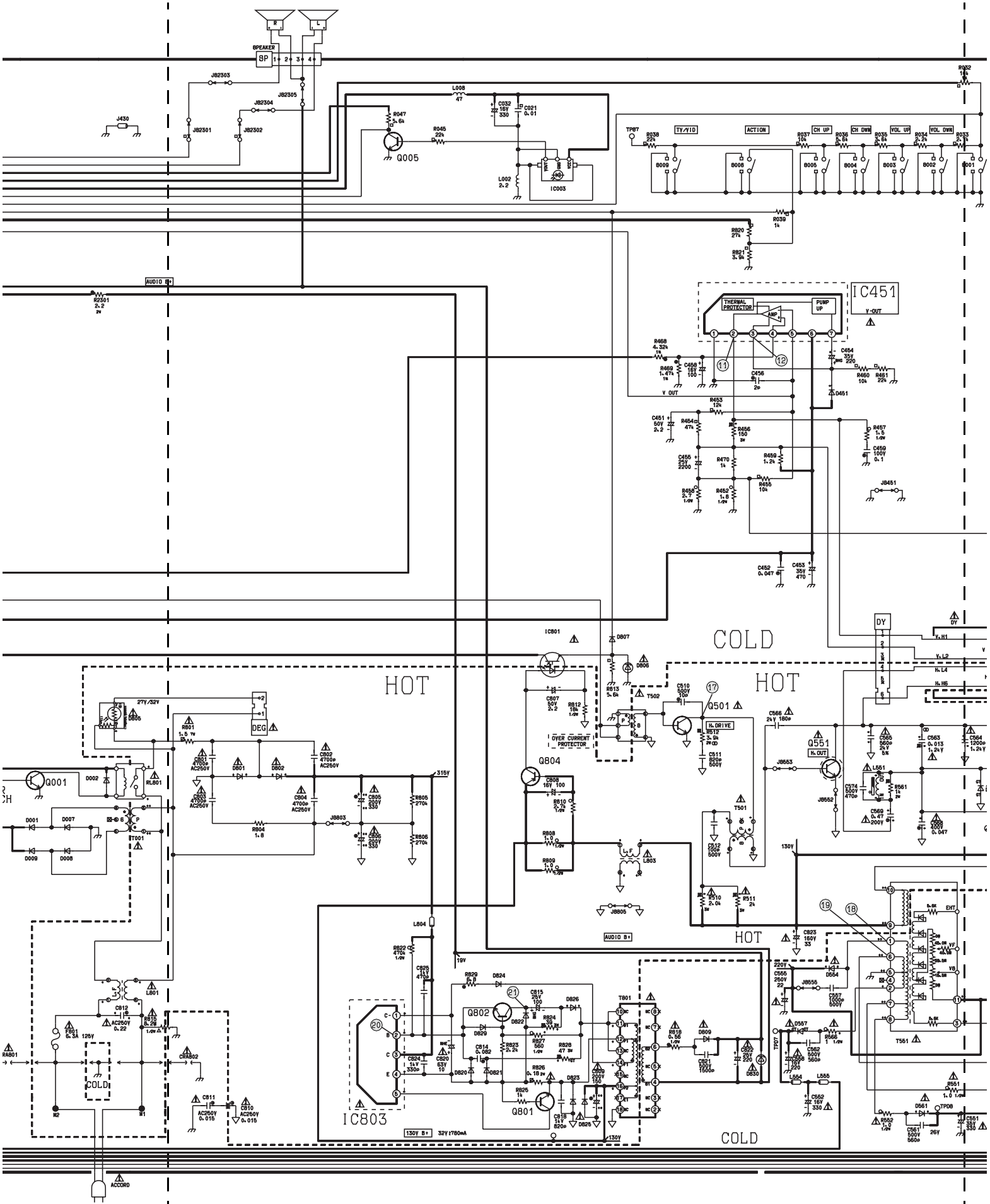
A Board


TNP2AH017BH/BK/BL Ⓐ
DIFFERENCE LIST
CIRNO | TNP2AH017BH | TNP2AH017BK | TNP2AH017BL
R026 | ERJ6GEYJ223V | ERJ6GEYJ183V | NOT USED
R027 | ERJ6GEYJ103V | ERJ6GEYJ223V | ERJ6GEYJ103V
R573 | ERG3FJ220H | ERG3FJ180H | NOT USED
R574 | ERG3FJ220H | NOT USED | ERG2FJ270H
IC451
Y-OUT
THERMAL PROTECTOR
PUMP UP
AMP
ACTION
CH UP
CH DWN
VOL UP
VOL DWN
POWER
A7
FOR PCC Z1
GND
SAWTOOTH OUT
GND
A8
FOR PCC Z2
PARABORA IN
130V
HOT GND
A12
HEATER-GND
HEATER
220V
COLD
HOT
COLD
HOT
COLD
H. DRIVE
H. OUT
USED ON TNP2AH017BH & BK ONLY
USED ON TNP2AH017BL ONLY
USED ON TNP2AH017BK ONLY

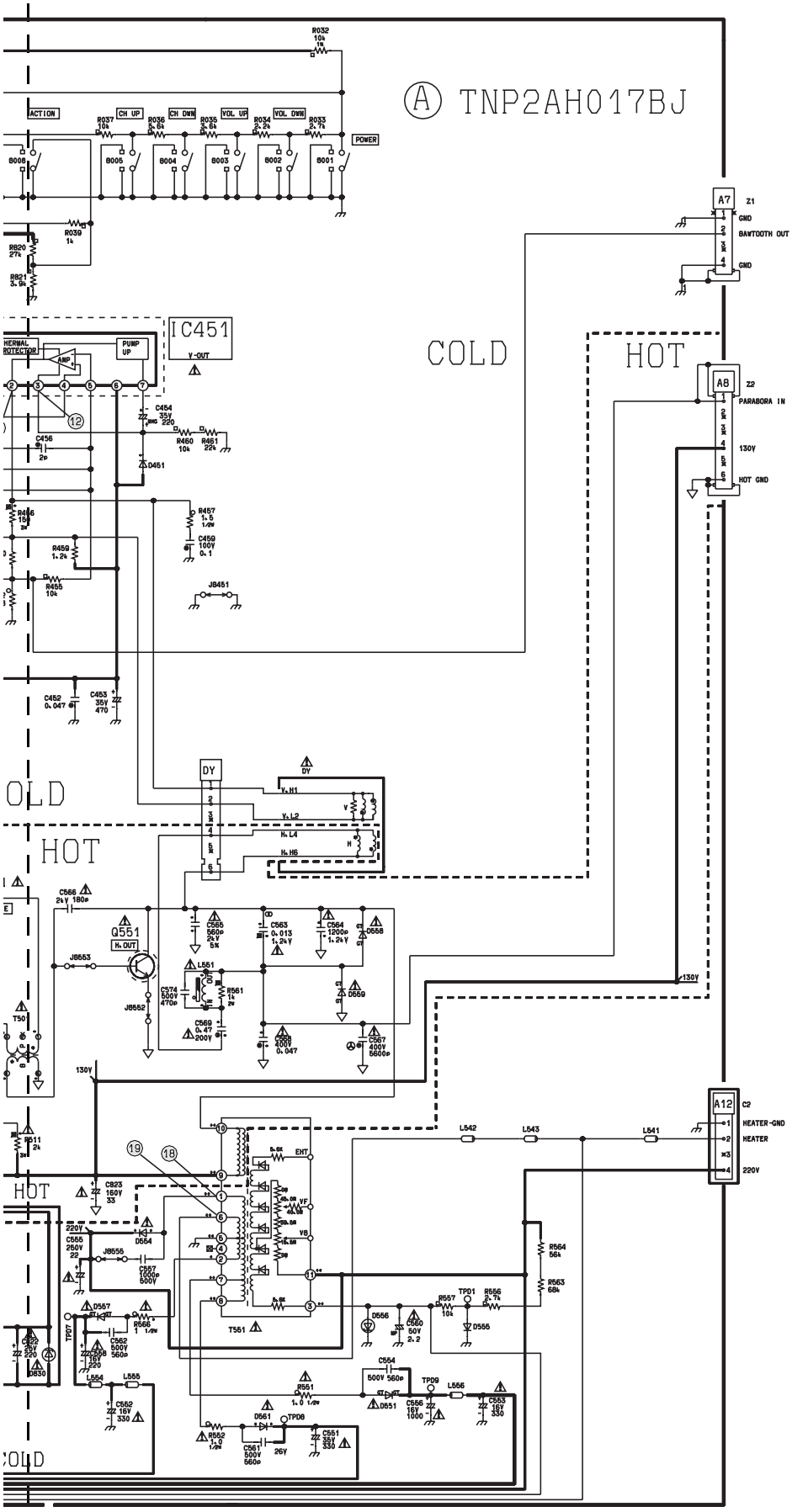

MPU
IC001
IC006
RST
IC002
I²C EEPROM
AUDIO OUT
IC2302
STANDBY 12V
MTS
A11
TNR001
VIDEO RF (TNR)
VAD-R
VAD-L
9V
5V

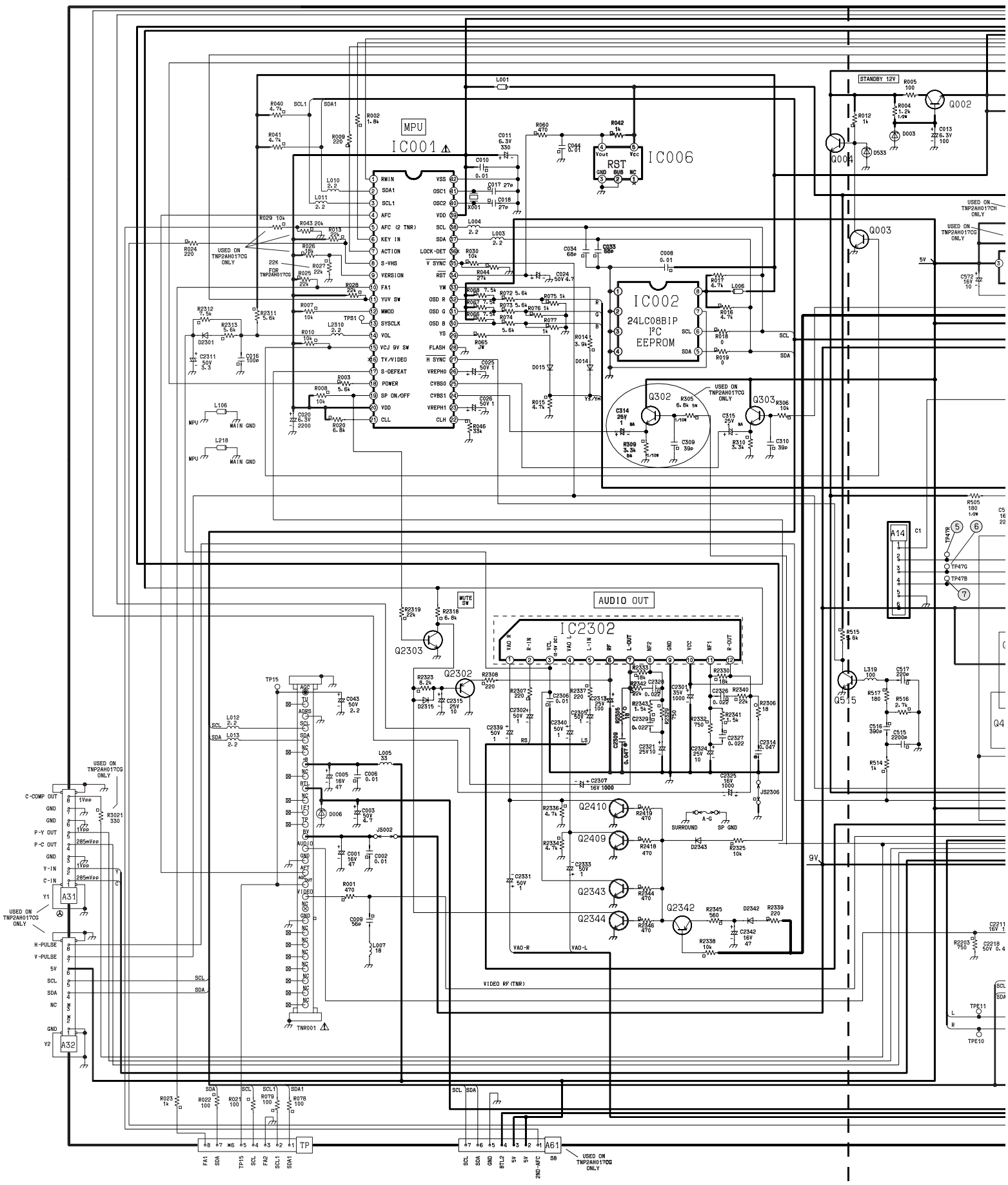

STANDBY 12V
IC005
IC552
IC551
IC101
V/C/J
IC2201
MTS
IC2351
S-AGC
BASS/TRE/BAL
SURROUND
ANALOG VDD
LUMA_IN FILTER
LUMA_OUT FILTER
CHROMA OUT FILTER
1.0Vpp
BPF BW
JK3004
A Board

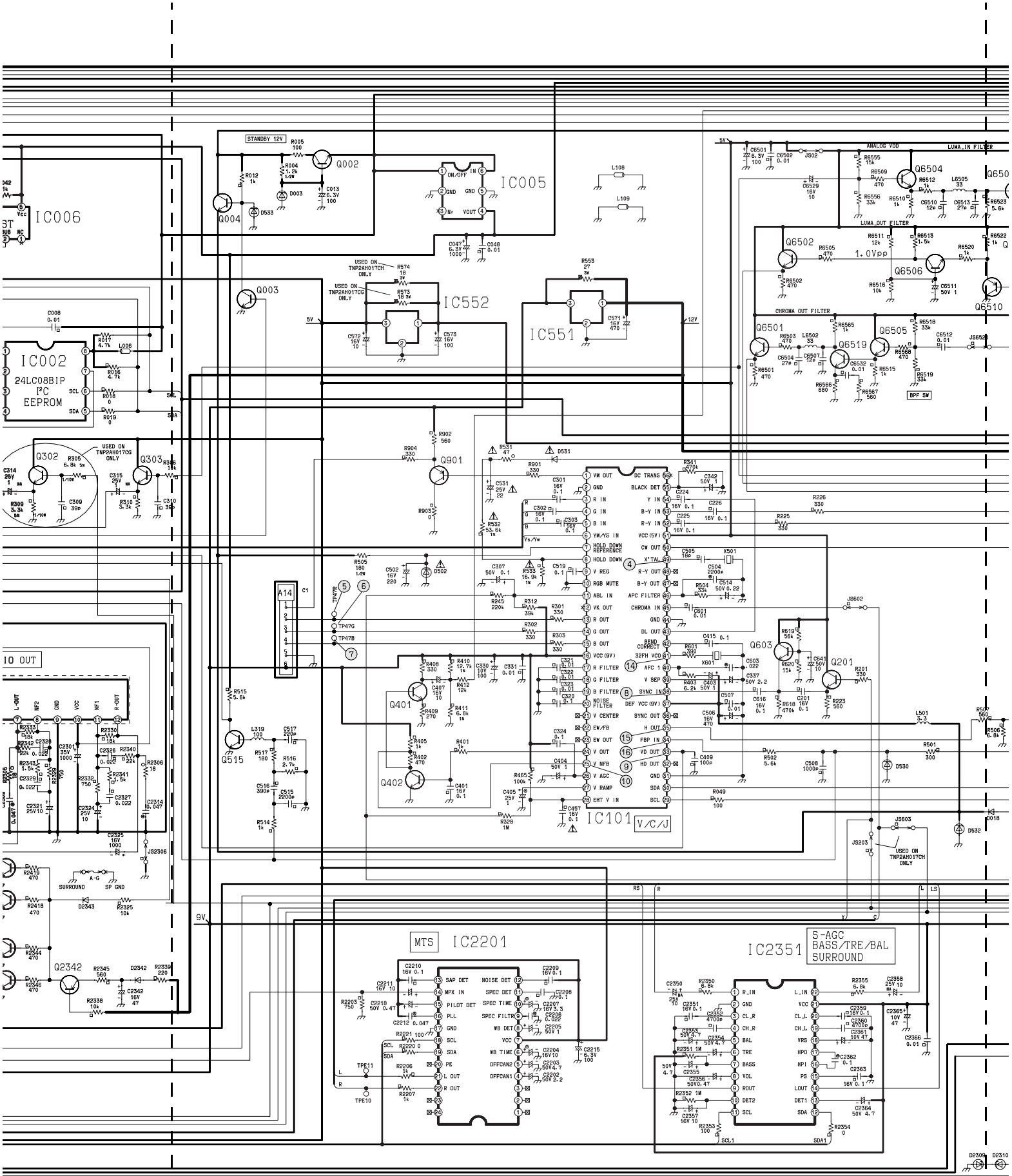

IC6501
3 LINE COMB FILTER
IC6502
RST
COMB FILTER
IC3001
A/V SW
Q6509
Q6516
Q6517
Q6510
Q6514
Q509
Q001
POWER SWITCH
DIGITAL VDD
ANALOG GND
DIGITAL GND
AUDIO B+
SPEAKER
JK3004
JK3003
JK3001
ACCORD
COLD
RF SIGNAL


HOT
COLD
HOT
HOT
COLD
IC451
IC803
IC801
Q005
Q804
Q501
Q551
Q802
Q801
Q001
T001
T501
T502
T551
T801
L801
L803
L804
IC003
J8451
J8453
J8552
J8555
J8556
J8803
J8805
J82301
J82302
J82303
J82304
J82305
J430
TP87
TV/VID
ACTION
CH UP
CH DWN
VOL UP
VOL DWN
THERMAL PROTECTOR
PUMP UP
AMP
V OUT
V-OUT
H. DRIVE
H. OUT
OVER CURRENT PROTECTOR
AUDIO B+
130V B+
32V±780mA
SPEAKER
ACCORD
DEG
DY
COLD

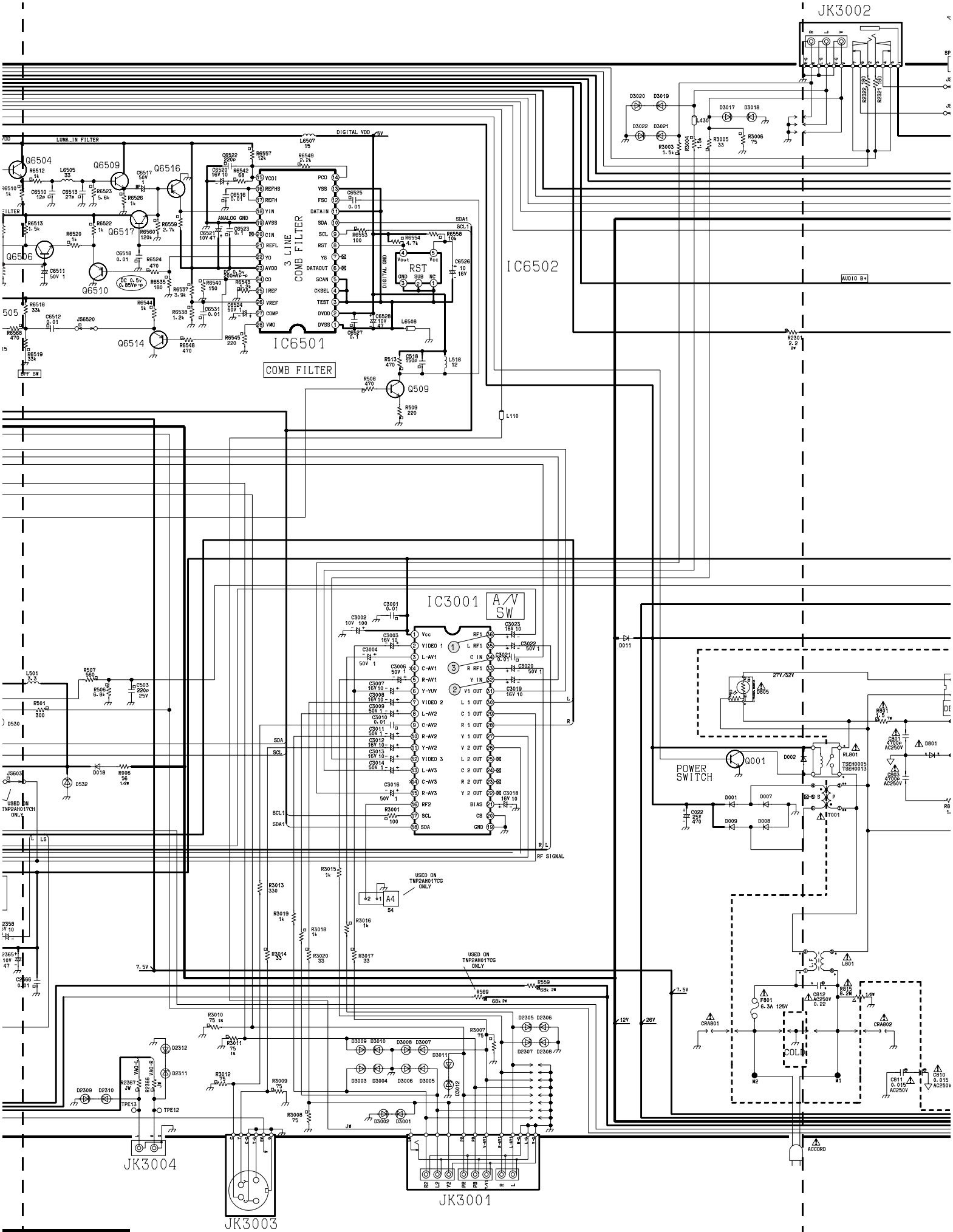
A Board

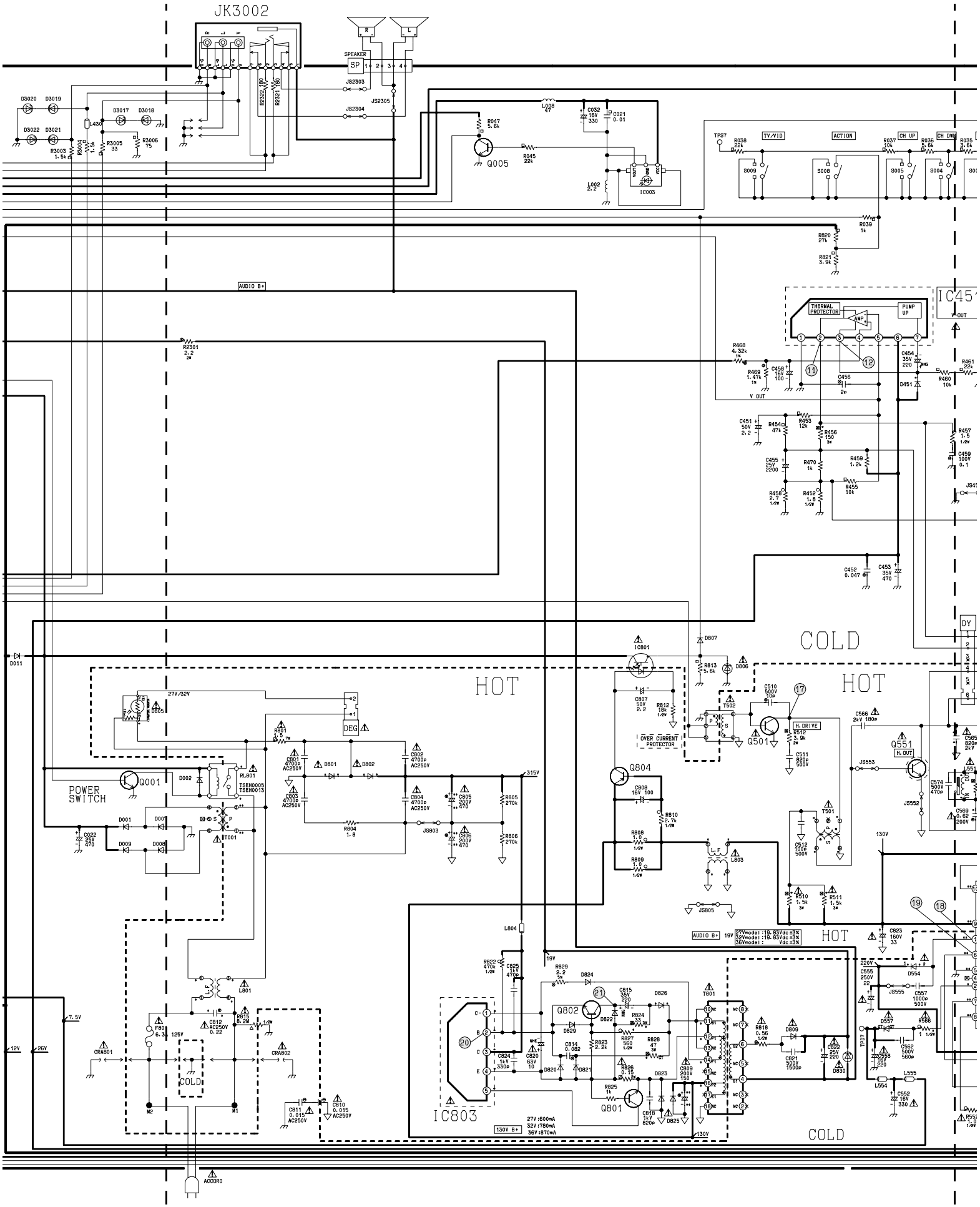

Ⓐ TNP2AH017BJ
COLD
HOT
IC451
V-OUT
PUMP UP
CH UP
CH DWN
VOL UP
VOL DWN
POWER
A7 Z1
GND
SAWTOOTH OUT
GND
A8 Z2
PARABORA IN
130V
HOT GND
A12 C2
HEATER-GND
HEATER
220V
DY
Q551
130V


MPU
IC001
IC006
RST
IC002
24LC08B1P
I²C
EEPROM
STANDBY 12V
Q002
Q003
Q004
D003
D533
Q302
Q303
Q2303
Q2302
AUDIO OUT
IC2302
Q2410
Q2409
Q2343
Q2344
Q2342
SURROUND
SP GND
Q515
A14
A31
A32
A61
TP
TNR001
JS002
JS2306
MUTE SW
USED ON TNP2AH017CG ONLY
USED ON TNP2AH017CH ONLY
FOR TNP2AH017CG
MAIN GND
VIDEO RF (TNR)
VAO-R
VAO-L
9V
5V

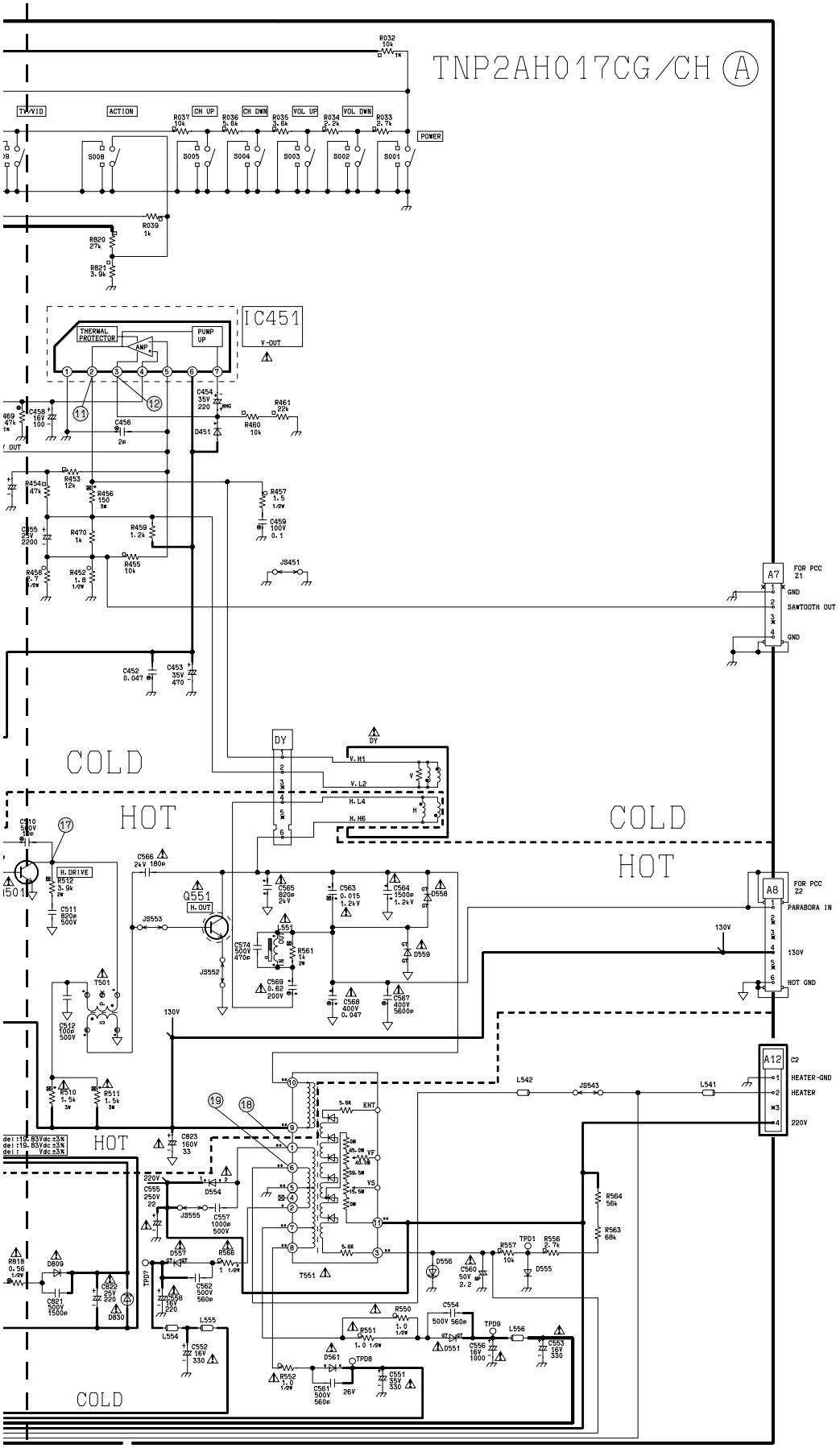

IC006
IC002
24LC08BIP
I²C
EEPROM
SCL
SDA
STANDBY 12V
Q002
Q004
D003
D533
IC005
ON/OFF
GND
VOUT
Q003
IC552
IC551
USED ON TNP2AH017CH ONLY
USED ON TNP2AH017CG ONLY
Q302
Q303
Q901
D531
D502
Q515
Q401
Q402
IC101
V/C/J
VM OUT
R IN
G IN
B IN
YM/YS IN
HOLD DOWN REFERENCE
HOLD DOWN
V REG
RGB MUTE
ABL IN
VK OUT
R OUT
G OUT
B OUT
VCC (9V)
R FILTER
G FILTER
B FILTER
NOISE FILTER
V CENTER
EW/FB
EW OUT
V OUT
V NFB
V AGC
V RAMP
EHT V IN
DC TRANS
BLACK DET
Y IN
B-Y IN
R-Y IN
VCC (5V)
CW OUT
X'TAL
R-Y OUT
B-Y OUT
APC FILTER
CHROMA IN
GND
DL OUT
BEND CORRECT
32FH VCO
AFC 1
V SEP
SYNC IN
DEF VCC (9V)
SYNC OUT
H OUT
FBP IN
VD OUT
HD OUT
GND
SDA
SCL
Q603
Q201
X601
D530
D532
D018
JS602
JS603
JS203
USED ON TNP2AH017CH ONLY
ANALOG VDD
LUMA_IN FILTER
LUMA_OUT FILTER
CHROMA OUT FILTER
Q6504
Q6502
Q6506
Q6510
Q6501
Q6519
Q6505
1.0Vpp
BPF SW
IO OUT
L-OUT
WF2
GND
VCC
WF1
R-OUT
SURROUND
A-G
SP GND
D2343
Q2342
9V
MTS
IC2201
SAP DET
MPX IN
PILOT DET
PLL
GND
SCL
SDA
PE
L OUT
R OUT
NOISE DET
SPEC DET
SPEC TIME
SPEC FILTR
WB DET
VCC
WB TIME
OFFCAN2
OFFCAN1
IC2351
S-AGC
BASS/TRE/BAL
SURROUND
R_IN
GND
CL_R
CH_R
BAL
TRE
BASS
VOL
ROUT
DET2
SCL
L_IN
VCC
CL_L
CH_L
VRS
HPO
HPI
PS
LOUT
DET1
SDA
SCL1
SDA1
D2309
D2310

A Board


JK3002
IC6502
IC6501
3 LINE COMB FILTER
COMB FILTER
IC3001 A/V SW
POWER SWITCH
JK3004
JK3003
JK3001
DIGITAL VDD 5V
AUDIO B+
RF SIGNAL
USED ON TNP2AH017CH ONLY
USED ON TNP2AH017CG ONLY
ACCORD
COIL


JK3002
SPEAKER
SP
JS2303
JS2304
JS2305
Q005
IC003
TV/VID
ACTION
CH UP
CH DWN
AUDIO B+
THERMAL PROTECTOR
PUMP UP
AMP
V OUT
COLD
HOT
POWER SWITCH
Q001
Q501
Q551
Q804
Q802
Q801
IC801
IC803
T502
T501
T001
T801
H. DRIVE
H. OUT
OVER CURRENT PROTECTOR
DEG
130V B+
ACCORD

A Board


TNP2AH017CG/CH A
TV/VID
ACTION
CH UP
CH DWN
VOL UP
VOL DWN
POWER
IC451
THERMAL PROTECTOR
AMP
PUMP UP
V-OUT
FOR PCC Z1
GND
SAWTOOTH OUT
GND
COLD
HOT
DY
V.H1
V.L2
H.L4
H.H6
FOR PCC Z2
PARABORA IN
130V
HOT GND
H. DRIVE
Q551
H. OUT
HEATER-GND
HEATER
220V
EHT
VF
VS
COLD

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